

Volume

#

R0496

BOOK 1495

4-679 b

INDEX DIAGRAM.

Township 28 South , Range 20 East

	44	41	39	37	36	35	
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22	125	122	119	97	82	68	52
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Meanders of the Elk River, Colorado River, and

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INDEX DIAGRAM.

Township <u>27 South</u> , Range <u>21 East</u>											
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7	261	8	236	9	221	10	207	11	191	12	166
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18	256	17	233	16	219	15	205	14	188	13	165
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Meandore of Right Bank of Colorado River pages 270 to 271
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INDEX DIAGRAM.

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299	439	439	438	438	438	437	437					
297	6	435	5	396	4	376	8	352	2	333	1	312
	433		431		394		374		351		332	
295	7	428	8	393	9	373	10	350	11	331	12	308
	427		424		391		371		348		328	
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291	19	410	20	385	21	362	22	340	23	320	24	305
	409		405		384		360		339		318	
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289	31	398	32	377	33	354	34	334	35	313	36	300

6-4817

Meander of Left Bank Colorado River in sec 449
 " " Right " " " " " 449 & 450

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BOOK A-496

4-679 b

INDEX DIAGRAM.

Township 6 South, Range 2 East

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

Handwritten annotations on the diagram:

- 487 (between 7 and 8)
- 486 (between 13 and 14)
- 485 (between 19 and 20)
- 484 (between 20 and 21)
- 482 (between 19 and 20)
- 476 (between 21 and 22)
- 480 (between 19 and 20)
- 477 (between 20 and 21)
- 479 (between 25 and 26)
- 474 (between 27 and 28)
- 473 (between 27 and 28)
- 472 (between 27 and 28)
- 473 (between 31 and 32)
- 469 (between 31 and 32)
- 469 (below 31)
- 468 (below 32)

6-4817

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Page

BOOK A-496

FIELD NOTES

OF THE SURVEY OF THE

EAST, WEST, AND NORTH BOUNDARIES AND SUBDIVISION

AND MEANDERS OF T.28 S., R.20 E.

RECEIVED

JUL 20 1928

Department Of The Interior
Public Survey Office
Salt Lake City, Utah

Of the Salt Lake Base and Meridian,

In the State of Utah

EXECUTED BY

Carl S. Swanholm, U. S. Cadastral Engineer

and

Chas. F. Moore and Robert C. Yundt

In the capacity of U. S. Surveyor, under instructions dated March 8, 1926, ~~1927~~, issued by the United States Surveyor General to govern surveys included in Group No. 176, which were approved by the Commissioner of the General Land Office, March 24, 1926, ~~1927~~ and assignment instructions dated April 1, 1926, and supplemental assignment instructions dated July 19, 1926, May 10, 1927, and August 10, 1927.

Survey commenced October 23, 1926, ~~1927~~

Survey completed November 9, 1927, ~~1928~~

INDEX DIAGRAM.

Township		28 South				Range		20 East				
34		31		29		27		26		25		
16	6	127	5	95	4	80	3	64	2	50	1	24
	125	122	94	78	64	48						
14	7	121	8	92	9	77	10	63	11	46	12	22
	120	116	91	75	61	44						
12	18	115	17	89	16	74	15	60	14	43	13	21
	112	109	87	72	58	42						
9	19	106	20	85	21	71	22	56	23	40	24	20
	104	102	84	69	55	39						
8	30	101	29	83	28	68	27	53	26	37	25	19
	99	98	82	66	52	36						
6	31	97	32	81	33	65	34	51	35	35	36	18

Meanders page 129 to 140

T.28 S., R.20 E

DATE DIAGRAM

	11-5-26	11-6-26	11-5-26	11-2-26	11-2-26	11-1-26	
11-5-26	6	5	4	3	2	1	10-29-26
9-10-27	9-14-27	7-25-27	7-26-27	7-20-27	7-27-27		10-29-26
11-4-26	7	9	9	10	11	12	10-28-26
9-9-27	9-10-27	7-23-27	7-22-27	7-21-27	7-20-27	7-15-27	10-28-26
9-10-26	18	17	16	15	14	13	10-27-26
9-13-27	9-7-27	7-22-27	7-13-27	7-19-27	7-15-27	7-14-27	10-27-26
9-6-27	9-8-27	7-14-27	7-14-27	7-16-27	7-16-27	7-16-27	10-27-26
10-28-26	19	20	21	22	23	24	10-27-26
7-12-27	7-14-27	7-14-27	7-15-27	7-12-27	7-12-27	7-13-27	10-27-26
10-27-26	30	29	28	27	26	25	10-27-26
7-12-27	7-12-27	7-16-27	7-15-27	7-11-27	7-9-27	7-6-27	10-27-26
10-27-26	31	32	33	34	35	36	10-27-26
7-11-27	7-11-27	7-9-27	7-9-27	7-7-27	7-2-27		10-27-26

All lines dated and colored with black ink were surveyed by Chas. F. Moore, U.S. surveyor.

All lines dated and colored with red ink were surveyed by Robert C. Yundt, U. S. surveyor.

All the meander lines of the Colorado River in T.28 S., R.20 E. were run by Carl S. Swanholm, U.S. cadastral engineer, during the period from September 2, 1927 to November 9, 1927 inclusive.

TEST OF INSTRUMENTS

Survey commenced October 23, 1926 and executed with Buff and Buff transits Nos. 9220, 9797, and 9983, used by Chas. F. Moore, and Robert C. Yundt, U.S. surveyors and Carl S. Swanholm, U. S. cadastral engineer, respectively. All the instruments are equipt with full vertical circles and Smiths solar attachment; unless otherwise specified all azimuth determinations are accomplished with the solar attachment.

The instruments were approved for use in this survey by the District Cadastral Engineer for Utah, conditional upon satisfactory field tests as stated in assignment instructions dated April 1, 1926, and supplemental assignment instructions dated July 19, 1926, May 10, 1927, and August 10, 1927.

We examine the adjustments of the instruments and correct all errors, then, to test the solar apparatus by comparing their indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations made on Polaris, we proceed as follows:

October 23, 1926, in camp near the cor. of Tps. 28 and 29 S., Rs. 20 and 21 E., in latitude $38^{\circ}19'N.$, and longitude $109^{\circ}40'W.$, at 5h. 28m. a.m. l.m.t., I observe Polaris at western elongation with transit No. 9220, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a peg driven firmly in the ground about 12 chs. north.

Azimuth of Polaris at western elongation = $1^{\circ}23'17''W.$
I lay off the azimuth of Polaris, $1^{\circ}23'15''E.$, and mark the meridian thus determined, by a tack in a peg driven firmly in the ground, 12 chs. N.

October 24, 1926, at 9h.a.m. apparent time, we set off 38°19' on the latitude arcs, 11° 37'S., on the decl. arcs, and determine meridians with the solars of transits Nos. 9220 and 9797 which we find to agree with the true meridian.

At apparent noon, with the latitude arcs unchanged, we observe the sun on the meridian; the resulting reading of the decl. arc of each instrument is 11°40'S., which agrees with the computed declination of the sun.

At 3h.p.m. apparent time, with the latitude arcs unchanged, we set off 11°42'S., on the decl. arcs, and determine meridians with the solars which we find to agree with the true meridian.

Field work was suspended in this township of November 6, 1926 and resumed again on July 1, 1927; the same instrumental equipment being used as in 1926, a test of which follows:

At camp near the cor. of secs. 25,26,35, and 36, T.28 S., R.20 E., in latitude 38°20'N., and longitude 109°41'W. at 1h.05m.a.m.l.m.t., I observe Polaris at eastern elongation with transit No.9220, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a peg driven firmly in the ground, about 10 chs. north.

Azimuth of Polaris at eastern elongation = 1° 23'30" E.

I lay off the azimuth of Polaris 1° 23' to the west, and mark the meridian thus determined, by a tack in a peg driven firmly in the ground, 10 chs. north.

July 3, 1927: At 9h. a.m. apparent time, we set off 38° 20' on the latitude arcs, 23°01'N. on the decl. arcs, and determine meridians with the solars of transits Nos.9220 and 9797 which we find to agree with the true meridian.

T.28 S., R.20 E.

At apparent noon, with the latitude arcs unchanged, we observe the sun on the meridian, the resulting reading of the declination arcs is $23^{\circ}00'.5$ N., which agrees with the computed declination of the sun.

At 3h. p.m. apparent time, with the latitude arcs unchanged, we set off $23^{\circ}00'$ N., on the decl. arcs, and determine meridians with the solars which we find to agree with the true meridian.

September 11, 1927; near the completion of the survey of T.28 S., R.20 E., we test the solar apparatus of transits Nos. 9220 and 9797 by comparing their indications with the true meridian established by Polaris observation July 1, 1927, heretofore described.

At 9h. a.m. apparent time, we set off $38^{\circ}20'$ on the lat. arcs, $4^{\circ}47'.5$ N. on the decl. arcs, and determine meridians with the solars which we find to agree with the true meridian.

At apparent noon, with the lat. arcs. unchanged, we observe the sun on the meridian; the resulting reading of the decl. arc. of each instrument is $4^{\circ}44'$ N., which agrees with the computed declination of the sun.

At 3h. p.m. apparent time, with the lat. arcs unchanged, we set off $4^{\circ}44'$ N., on the decl. arcs, and determine meridians with the solars which we find to agree with the true meridian.

As all the solar observations during the usual hours of solar work come within 1' of the true meridian, we conclude that the adjustments of the instruments are satisfactory.

The instruments were also kept in good adjustment during the progress of the survey. Observations were made on Polaris at points along the south boundary of the township and transit lines deflected from these true meridians and carried into the subdivision of the

T. 28 S., R. 20 E., S. 1/4, 1/2, 3/4

township. Comparison of the solar meridians with these lines projected from the true meridians were made frequently during the subdivision of the township.

The meanders of the Colorado River in T. 28 S., R. 20 E. were run by Carl S. Swanholm, U. S. cadastral engineer in conjunction with meanders in T. 27 S., R. 20 E. Azimuth determinations were accomplished with the solar attachment and the bearing of the lines thus determined were checked by meridians determined by direct observations on the sun, or observations made on Polaris on line in the field during working hours on each clear day. For preliminary and final test of transit No. 9983 which was used in the survey of the meander lines see survey of T. 27 S., R. 20 E., book "C" this group.

MEASUREMENTS

Unless otherwise specified all measurements are made with Lallie steel ribbon tapes 5 and 8 chains in length compared with Lufkin standard steel tapes 1 chain long and found correct. The measurements are made on the slope, the vertical angle determined, and the slope measurements properly reduced to true horizontal distances.

WEST BOUNDARY OF T.28 S., R.20 E.

Chains

WEST BOUNDARY OF T.28 S., R.20 E.

From the cor. of Tps. 28 and 29 S., Rs. 19 and 20 E., which is an iron post, 2 ins. in dia., firmly set in a mound of stone, and marked and witnessed as described in the field notes of the survey of T.29 S., R.20 E., book "A" this group.

North, bet. secs. 31 and 36.

The line north descends the breaks of the Colorado River Canyon and high vertical sandstone ledges over which I cannot chain; to determine distance ahead on line I triangulate as follows:

Designate a point 37 lks.

S. of the Tp. cor.

point "A" and set flag

"B" at a point on line

north near the right

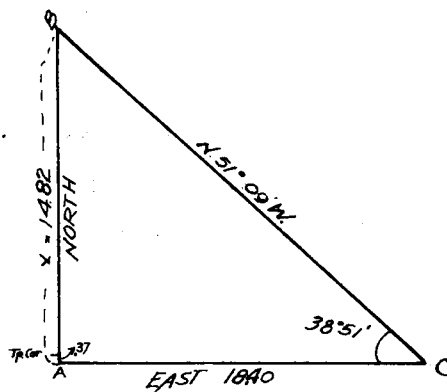
bank of the Colorado

River; base line "AC"

bears East, 18.40 chs.

distant, and the line

"CB" bears N.51°09'W.



The angle subtended at "C" = 38°51'. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance line "AB" by triangulation	= 14.82 chs.
Subtract	.37
Distance from Tp. cor. to point "B"	= 14.45
Distance by return measurement	5.45
	9.00

9.00 Base of vertical sandstone ledges approximately 400 ft.

high, bears N.15°W. and S.30°E.; continue descent.

14.02 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for witness wor. to the meander cor. of secs. 31

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033

15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

—

344

S36 S31
R198 R205

T28S

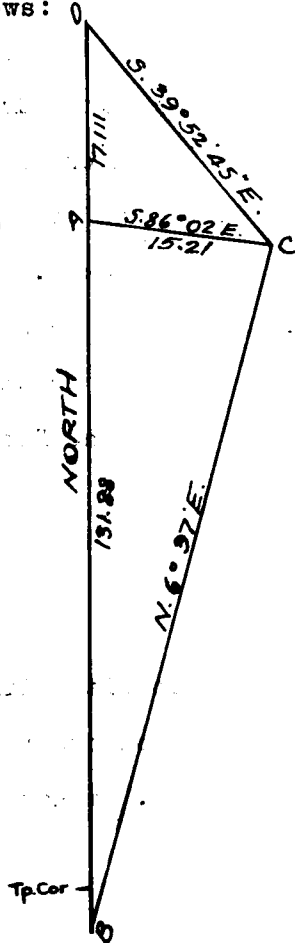
1920

14.49 Mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 31 and 36

NOTE: The Colorado River in T.28 S., R.20 E. is generally confined to a definite channel the banks of which are principally of alluvial formation. These banks, however, are subject to change, due to seasonal high water or a sudden rise in the water level of the river caused by floods; therefore, unless otherwise stated in order to perpetuate the meander corners on both banks of the river in the township on safe ground, witness corners are established.

The line north from this point is in the Colorado River for approximately 1 mile distance; therefore, I triangulate ahead on line as follows: 0

Set flag "A" on line north, also a flag "C" on the east side of the river. Return to a point 2.80 chs. south of the cor. of Tps. 28 and 29 S., Rs. 19 and 20 E., which I designate "B". The line "BC" bears $N. 6^{\circ} 37' E.$ It is impossible to measure base line "AC" by chaining as same crosses river, therefore, I continue north from "A", 17.111 chs. to point "D", from which point "C" bears $S. 39^{\circ} 52' 45" E.$ All bearings taken by direct reading of the solar and angles checked by deflection. Distance of base



WEST BOUNDARY OF T.28 S., R.36 E.

Chains

line "AC" by triangulation = 15.21 chs.

Distance of line "AB" by triangulation	=	131.88 chs.
Subtract		<u>2.80</u> "
Distance from Tp. cor. to point "A"	=	129.08 "
Distance by return measurement	=	<u>28.40</u> "
		106.68 "
Subtract 80.00 chs. (theoretical distance of line bet. secs. 31 and 36)		<u>80.00</u> "
		26.68 "

Note: The $\frac{1}{4}$ sec. cor. bet. secs. 31 and 36 and the cor. of secs. 25, 30, 31, and 36 falls in the Colorado River.

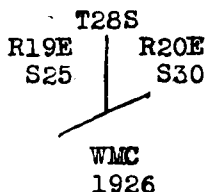
26.68

On line bet. secs. 25 and 30 and distance north of the theoretical position for the cor. of secs. 25, 30, 31, and 36.

Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 25 and 30.

27.23

Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in the ground for witness cor. to the meander cor. of secs. 25 and 30, with brass cap marked

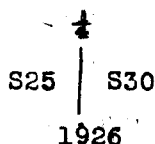


Deposit a limestone, 10x6x3 ins., marked with a cross (X) on one face at base of monument.

Thence over rolling limestone bench through short undergrowth.

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked



Deposit a limestone, 7x5x3 ins., marked with a cross (X) on one face at base of monument.

Cor. stands on a low limestone terrace projecting

WEST BOUNDARY OF T.28 S., R.20 E.

CHAINS

eastward to the Colorado River.

49.06 Point of triangulation on low spur, projecting E.;
Continue North, bet. secs. 25 and 30.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins.
in the ground over a cross (X) cut in bedrock and
18 ins. in a mound of stone for cor. of secs. 19, 24,
25 and 30, with brass cap marked

T28S	
R19E	R20E
S24	S19
S25 S30	
1926	

from which

A solid sandstone ledge, marked S25 X B0, bears
S.65°45'W., 287 lks. distant.

Land, gently rolling bench or river bottom, and rough
sandstone benches broken by ledges.

Soil, shallow sand and rocky of sandstone and limestone
formation; 3rd. and 4th. rates.

No timber.

Undergrowth, dense short willow and skunk brush along
river bottom.

Note: The above land rating qualifies for both the lines
bet. secs. 31 and 36 and the line bet. secs. 25 and 30.

North, bet. secs. 19 and 24.

Over river bottom through dense willow undergrowth.

1.41 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
the ground for witness cor. to the meander cor. of
secs. 19 and 24 on the right bank of the Colorado
River, with brass cap marked

WMC	
S24	S19
R19E	R20E
T28S	
1926	

Deposit a limestone, 7x5x4 ins. marked with a cross (X)
on one face at base of monument.

WEST BOUNDARY OF T.28 S., R.20 E.

Chains

1.58 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 19 and 24.

1.85 To determine distance across the Colorado River, I triangulate as follows:

Set flag "A" on line on N. side

of river and designate

this point "B". Measure

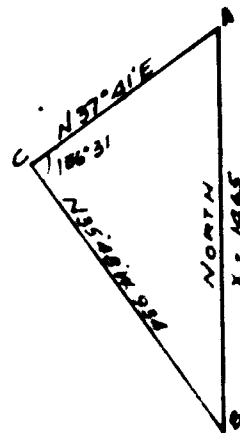
base line "BC", N.35°48'W.,

9.34 chs. distant. The

line "CA" bears N.37°41'E.,

and the angle subtended at

"C" = 106°31'. All bearings taken by direct reading of the solar and angle determined by deflection.



Distance on line	= 1.85 chs.
Distance line "AB" by triangulation	= <u>14.65</u> "
Distance on line to point "A"	= 16.50 "
Distance by return measurement	= <u>1.0</u>
	16.40 "

16.40 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 19 and 24.

16.50 Point of triangulation.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 19 and 24, with brass cap marked

T28S	
R19E	R20E
S24	S19

WMC
1926

Deposit a sandstone, 10x4x3 ins., marked with a cross (X) on one face at base of monument.

Thence over rough bench land broken by ledges through short undergrowth.

31.85 Begin descent over rough, broken ledges.

40.00 On surface rock, mark a cross (X), over which
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.

WEST BOUNDARY OF T.28 S., R.20 W.

Chains

in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

S24 | S19

1926

from which

A sandstone ledge, marked $\frac{1}{4}$ X BO, bears S.67°W., 150 lks. distant.

Cor. stands in rocky draw, 110 ft. below the 31.85 chs. point; ascend over ledges.

53.00 Spur, 180 ft. above $\frac{1}{4}$ sec. cor., projects NW.; descend 150 ft. to

66.15 Wash, 30 lks. wide, 2 ft. deep, drains W.; ascend.

73.50 Top of ascent, 100 ft. above wash, bears E. and W.; gradually descend.

76.30 Wash, 20 lks. wide, 1 ft. deep, drains W.

80.00 On N. slope of a small box canyon.

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for cor. of secs. 13,18,19, and 24, with brass cap marked

T28S

R19E	R20E
S13	S18
S24	S19
1926	

Impracticable to build accessories at cor.

Land, rough, rocky benches broken by ledges; general W. exposure and drainage.

Soil, shallow sand and rocky; 3rd. and 4th. rates.

No timber.

Undergrowth, dense short willows on river bottom and shadscale on benches.

WEST BOUNDARY OF T.28 S., R.20 E.

Chains

North, bet. secs. 13 and 18.

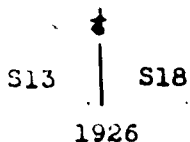
Over rough bench land broken by ledges and cut by small box canyons, through scattered undergrowth. Descend.

4.50 Wash, 30 lks. wide, 1 ft. deep, in small canyon, 50 ft. below sec. cor., drains SW.; ascend.

10.20 Rocky spur, 160 ft. above canyon, projects W.; thence over broken ground.

40.00 On point of spur, projects NW.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for $\frac{1}{4}$ sec. cor., with brass cap marked

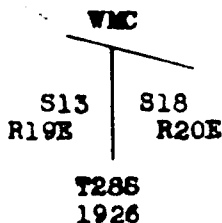


from which

A sandstone ledge, marked $\frac{1}{4}$ X B0, bears N.87°30'W., 74 lks. distant.

Descend abruptly 180 ft. to the Colorado River.

4.57 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground on solid rock for witness cor. to the meander cor. of secs. 13 and 18 on the left bank of the Colorado River, with brass cap marked



from which

A sandstone ledge, marked MC S13 X B0, bears S.21°28'W., 362 lks. distant.

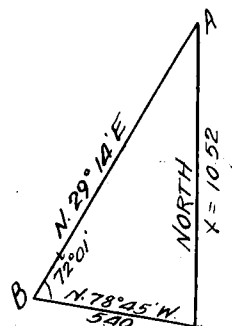
4.57 Intersect the mean high water mark on the left bank of the Colorado River; also true point for the meander cor. of secs. 13 and 18.

WEST BOUNDARY OF T.28 S., R.20 E.

Chains

To determine distance across river, I make the following triangulation:

Set flag on line on right bank of river which I designate "A"; then from point for meander cor. on left bank of river measure base line N.78°45'W., 5.40 chs. distant to point "B". The line "BA" bears N.29°14'E., and the angle subtended at "B" is 72°01'. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation = 10.52 chs.

- 59.09 Mean high water mark on the right bank of the Colorado River and point for the meander cor. of secs. 13 and 18.
- 59.45 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 13 and 18 on the right bank of the Colorado River, with brass cap marked

T28S	
R19E	R20E
S13	S18

WMC
1926

from which

A sandstone ledge, marked S13 MC x BO, bears S.58°45'W., 3.70 chs. distant.

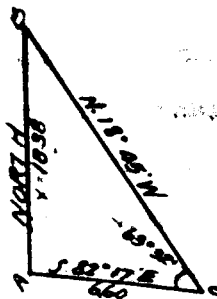
The line north passes over high ledges up which I cannot chain; therefore, I triangulate as follows:

Return to a point at 48.88 chs. on line bet. secs. 13 and 18 which I designate "A" and set flag "B" ahead on line on top of ledge; then measure base line "AC", S.82°17'E., 6.60 chs. distant. The line "CB" bears N.18°45'W. and the angle subtended at "C" is 63°32'. All bearings taken by direct reading of the solar

WEST BOUNDARY OF T.20 N., R.20 E.

chains

and angles checked
by deflection.



Distance on line to point "A" = 48.88 chs.
Distance by triangulation = 18.38 chs.
67.26 "

67.26 To point of triangulation on top of high ledge, 75 ft.
above Colorado River, bears NW. and SE.
Thence over rough, broken bench land.

On N. side of bottom of box canyon.

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.
in a large mound of stone over a cross (X) cut in
surface rock for cor. of secs. 7, 12, 13, and 18, with
brass cap marked

T288	
R19E	R20E
S12	S7
S13	S18
1926	

from which

A sandstone outcropping, marked S13XB0,
bears S. 14° 07' W., 188 lks. distant.

land, rough, broken benches.

Soil, shallow sand and rocky of sandstone and limestone
formation; 3rd. and 4th. rates.

No timber.

Undergrowth, shadscale, yellow top and mountain rush.

North, bet. secs. 7 and 12.

Ascend over rough bench land broken by sandstone ledges
through short undergrowth.

17.40 Rocky spur and rim of canyon, 250 ft. above sec. cor.,
projects S. 40° W.; descend.

23.20 Box canyon, 1.50 chs. wide, 75 ft. deep, drains S. 40° W.;

WEST BOUNDARY OF T.28 S., R.20 E.

Chains

ascend.

32.80 Spur, 100 ft. above canyon, projects W.; gradually descend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in the ground on solid rock and 26 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

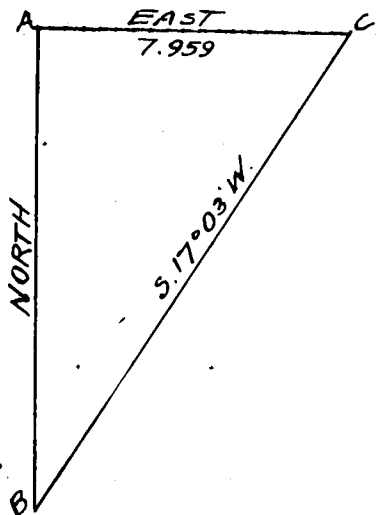
S12 | S7

1926

Deposit a sandstone, 10x4x2 ins., marked with a cross (X) on one face at base of monument.

Cor. stands on left rim of a box canyon, bears E. and W. To determine distance across canyon, I triangulate as follows:

Set point "A" on line north and erect flag "B" at this point; then, from "A" measure base line "AC", east, 7.959 chs. The line "CB" bears S.17°03'W. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance on line	=	40.00 chs.
Distance by triangulation	=	25.95
Total	=	65.95 "

50.00 The approximate bottom of box canyon, 300 ft. deep, drains W.

65.95 To point of triangulation on rim of bench, bears E. and W.; thence over bench.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 4 ins. in the ground over a cross (X) cut in bedrock, and 26 ins. in a large mound of stone for cor. of secs. 1, 6, 7, and 12, with brass cap marked

WEST BOUNDARY OF T. 28 S., R. 20 E.

Chains

311243

T28S
 R19E | R20E
 S1 | S6
 ————
 S12 | S7
 1926

Impracticable to build other accessories at cor.

Cor. stands on a flat bench.

Land, rough, rocky bench land broken by sandstone ledges
 and cut by box canyons; general W. drainage.

Soil, shallow sand and rocky of sandstone formation;
 3rd. and 4th. rates.

No timber.

Undergrowth, shadscale, mountain rush and yellow top.

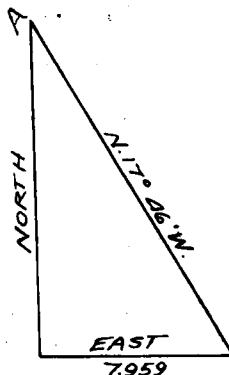
North, bet. secs. 1 and 6.

Over broken bench land through short undergrowth.

5.00

Base of sandstone ledges over which I am unable to
 chain; therefore, I return to a point at 65.95 chs.
 on line bet. secs. 7 and 12 in order to obtain a
 suitable base line and make the following triangulation:

Set flag "A" on line to the north,
 then measure base line East,
 7.959 chs. From E. end of base
 flag "A" bears N.17°46'W. All
 bearings taken by direct read-
 ing of the solar and angles
 checked by deflection.



Distance by triangulation = 24.84 chs..

Subtract 14.05 "

Distance on line to "A" = 10.89 "

10.79

To point of triangulation on point of spur, 100 ft. above
 sec. cor.; thence gradually descend along broken W.
 slope.

37.00

Trail, bears NE. and SW., also, foot of slope, bears
 NE. and SW.; thence over rolling bench land.

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in

WEST BOUNDARY OF T.28 S., R.20 E.

Chains

the ground over a cross (X) cut in surface rock
and 26 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor.,
with brass cap marked

S1 | S6

1926

Impracticable to build accessories at cor.

60.00 Foot of spur and leave bench, bears NE. and SW.; ascend.

67.40 Spur, 60 ft. above $\frac{1}{4}$ sec. cor., projects N.30°E.; descend
NW. slope.

75.00 Foot of slope, 100 ft. below spur, bears NE. and SW.;
thence over rolling bench.

80.00 On gentle N. slope.

Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in
the ground on solid rock and 20 ins. in a large mound
of stone for cor. of Tps. 27 and 28 S., Rs. 19 and
20 E., with brass cap marked

T27S
R19E | R20E
S36 | S31
S1 | S6
T28S
1926

Deposit a limestone, 7x5x4 ins., marked with a cross
(X) on one face at base of monument.

Impracticable to build accessories to cor.

Land, rolling and rough, rocky bench broken by ledges;
general W. exposure.

Soil, shallow sand and rocky of sandstone and limestone
formation; 3rd. and 4th. rates.

No timber.

Undergrowth, short scattered growth of shadscale, yellow
top and bunch grass.

Note: No 3 inch iron post was available for the township
cor.

EAST BOUNDARY OF T.28 S., R.20 E.

Chains

ant150

EAST BOUNDARY OF T.28 S., R.20 E.

From the cor. of Tps. 28 and 29 S., Rs. 20 and 21 E.,

which is an iron post, 3 ins. in dia., firmly set in the ground and marked and witnessed as described in the field notes of the survey of T.29 S., R.20 E., book "A" this group.

North, bet. secs. 31 and 36.

Over rolling land in bottom of Lockhart Basin, through scattered short undergrowth.

13.10 South fork of Lockhart Wash, 30 lks. wide, 4 ft. deep, drains NW.; ascend.

16.55 Top of ascent and rim of small bench, bears E. and W.; thence across bench.

30.00 Leave bench, bears E. and W.; gradually descend.

39.10 North fork of Lockhart Wash, 20 lks. wide, 4 ft. deep, drains NW.; gradually ascend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground over a cross (X) cut in bedrock and 24 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S36 | S31
 1926

Impracticable to build other accessories at cor.

43.30 Top of ascent and rim of small bench, bears NE. and W.; thence over bench.

55.95 Leave bench, bears NE. and SW.; descend NW. slope.

77.20 Wash, 30 lks. wide, 5 ft. deep, drains SW.; thence along W. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for cor. of secs. 25, 30, 31 and 36, with brass cap marked

EAST BOUNDARY OF T. 28 S., R. 20 E.

Chains

T28S	
R20E	R21E
S25	S30
S36	S31
1926	

Deposit a sandstone, 4x4x4 ins., marked with a cross (X) on one face at base of monument.

Land, rough and broken in bottom of Lockhart Basin; general W. exposure and drainage.

Soil, shallow sand and surface rock of sandstone formation; 4th. rate.

No timber.

Undergrowth, scattered shadscale, mountain rush and yellow top.

North, bet. secs. 25 and 30.

Over rolling land sloping W. through scattered short undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$	
S25	S30
1926	

Deposit a sandstone, 6x5x3 ins., marked with a cross (X) on one face at base of monument.

44.35 Wash, 20 lks. wide, 4 ft. deep, drains SW.

53.50 Wash, 25 lks. wide, 3 ft. deep, drains SW.; gradually ascend.

80.00 On surface rock, mark a cross (X), over which Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone for cor. of secs. 19, 24, 25, and 30, with brass cap marked

T28S	
R20E	R21E
S24	S19
S25	S30
1926	

EAST BOUNDARY OF T.28 S., R.20 E.

Chains

Land, rough and broken in bottom of Lockhart Basin;
 general W. exposure and SW. drainage.
 Soil, shallow sand and sandstone surface rock; 4th. rate.
 No timber.
 Undergrowth, mountain rush, shadscale and yellow top.

North, bet. secs. 19 and 24.

Ascend abruptly from Lockhart Basin over rough mountainous land broken by sandstone ledges.

6.25 Top of ledge, 100 ft. high, bears NE. and SW.; continue ascent over series of ledges.

40.00 On steep slope, 1000 ft. above sec. cor.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S24 | S19
 1926

Impracticable to build accessories at cor.

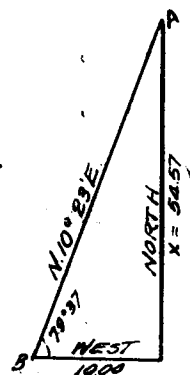
The line north ascends high ledges up which I cannot chain; to determine distance ahead on line I triangulate as follows:

Return to a point 3 lks. north of the cor. of secs. 19, 24,

25 and 30 and set flag "A" on line north on top of ledges, then measure base line west, 10.00 chs. to point "B".

The line "BA" bears N.10°23'E. and the angle subtended at "B" = 79°37'. All bearings taken

by direct reading of the solar and angles checked by deflection.



Distance by triangulation = 54.57 chs.

54.60 Point of triangulation on top of ledge 200 ft. high and rim of Hatch Point, 1650 ft. above sec. cor., bears

EAST BOUNDARY OF T.28 S., R.20 E.

Chains

80.00

NE. and SW.; thence over broken mesa top through dense juniper and pinon timber and short undergrowth. Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground on solid rock and 14 ins. in a mound of stone for cor. of secs. 13, 18, 19, and 24, with brass cap marked

T28S	
R20E	R21E
S13	S18
S24	S19
1926	

from which

A juniper, 10 ins.diam., bears N.32½°E., 90 lks dist., marked T 28 S R 21 E S 18 BT

A scrub juniper, 10 ins.diam., bears S.41½°E., 94 lks. dist., marked BT

A pinon, 8 ins.diam., bears S.73½°W., 110 lks. dist., marked T 28 S R 20 E S 24 B T

A pinon, 12 ins.diam., bears N.35½°W., 84 lks. dist., marked T 28 S R 20 E S 13 BT

Land, S. 54.60 chs. precipitous breaks of mesa; remainder of mile rolling mesa top.

Soil, shallow sand and rocky of sandstone formation; 4th. rate.

Timber, juniper and pinon on N. portion of mile.

Undergrowth, shadscale, mountain rush and yellow top on breaks of mesa; black brush, mountain rush and amole plant on mesa.

North, bet. secs. 13 and 18.

Over gently rolling mesa top through dense timber and short undergrowth.

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground on solid rock and 10 ins. in a mound of stone for ¼ sec. cor., with brass cap marked

TO ALWOLA SECTION

Chains

S13 | S18

1926

from which

A pinon, 6 ins.diam., bears S.82°W., 31 lks.

dist., marked $\frac{1}{4}$ S 13 B T

A pinon, 10 ins.diam., bears East, 66 lks.

dist., marked $\frac{1}{4}$ S 18 B T

49.70 Low rise on mesa, bears NW. and SE.; leave dense timber.

55.00 Gradually descend over gentle N. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 8 ins. in
the ground on solid rock and 24 ins. in a mound of
stone for cor. of secs. 7, 12, 13, and 18, with brass
cap marked

T28S	
R20E	R21E
S12	S7
S13	S18
1926	

from which

A juniper, 3 ins.diam., bears N.11°45'E., 123 lks.

dist., marked BT

A juniper, 3 ins.diam., bears S.39°45'E., 100 lks.

dist., marked BT

A scrub juniper, 6 ins.diam., bears S.43 $\frac{1}{2}$ °W., 28

lks. dist., marked BT

A scrub juniper, 6 ins.diam., bears N.82°W., 71

lks. dist., marked BT

Land, rolling mesa.

Soil, shallow sand and rocky of sandstone formation;

4th. rate.

Timber, medium to dense growth of juniper and pinon.

Undergrowth, black brush, mountain rush and amole plant.

North, bet. secs. 7 and 12.

Over gently rolling mesa top through medium growth of

EAST BOUNDARY OF T.28 S., R.20 E.

Chains

timber and short undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S12 | S7

1926

Deposit a sandstone, 7x6x6 ins. marked with a cross (X) at base of monument.

No suitable bearing trees available.

65.40 Enter dense timber, bears E. and W.; gradually descend NE. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground on solid rock and 10 ins. in a mound of stone for cor. of secs. 1, 6, 7, and 12, with brass cap marked

T28S
R20E | R21E
S1 | S6
S12 | S7

1926

from which

A juniper, 6 ins.diam., bears N.36°45'E., 27 lks. dist., marked T 28 S R 21 E S 6 B T

A juniper, 3 ins.diam., bears S.50 $\frac{1}{2}$ °E., 50 lks. dist., marked BT

A pinon, 10 ins.diam., bears S.38°W., 27 lks. dist., marked T 28 S R 20 E S 12 B T

A pinon, 8 ins.diam., bears N.78°45'W., 38 lks. dist., marked T 28 S R 20 E S 1 B T

Land, gently rolling mesa.

Soil, shallow sand and rocky of sandstone formation;

4th. rate...

Timber, medium to dense growth of juniper and pinon.

Undergrowth, black brush, mountain rush and amole plant.

EAST BOUNDARY OF T.28 S., R.20 E.

41410

Chains

North, bet. secs. 1 and 6.

Over rough, broken mesa top through dense timber and short undergrowth.

16.50 Draw, drains NE.; gradually ascend.

30.00 Spur, 100 ft. above draw, projects NE.; gradually descend

40.00 On surface rock, mark a cross (X) over which.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

	+	
S1		S6
1926		

from which

A pinon, 10 ins.diam., bears N.48°45'E., 62 lks.
dist., marked $\frac{1}{4}$ S 6 B T

A pinon, 10 ins.diam., bears S.89°W., 119 lks.
dist., marked $\frac{1}{4}$ S 1 B T

41.40 Sandstone rim, 100 ft. high, bears NE. and NW.; descend.

62.40 Draw, drains E.; a box canyon heads in this draw about
5 chs. E. Ascend over sandstone surface rock 150 ft.
to township cor..

80.00 On surface rock, mark a cross (X) over which

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone for cor. of Tps. 27 and 28 S., R.20 E., with brass cap marked

T28S		T28S
R20E		R21E
S36		S6
S1		
T28S		

1926

from which

A pinon, 3 ins.diam., bears S.35°W., 136 lks.
dist., marked BT

A pinon, 4 ins.diam., bears N.25°W., 57 lks.
dist., marked BT

NORTH BOUNDARY OF T.28 S., R.20 E.

Chains

101.11 Note: No 3-inch iron post was available for the township cor. T.28 S., R.20 E.

101.13 Land rough, broken mesa top.
Soil, shallow sand and sandstone surface rock; 4th. rate.
Timber, medium to dense growth of juniper and pinon.
Undergrowth black brush, mountain rush and amole plant.

NORTH BOUNDARY OF T.28 S., R.20 E.

Random Line.

From the cor. of Tps. 27 and 28 S., R.20 E., heretofore described,
West, along the N. bdy. of T.28 S., R.20 E. for alinement only and fall 70 lks. S. of the cor. of Tps. 27 and 28 S., Rs. 19 and 20 E. heretofore described. This falling answers to a correction of 11.6 lks. N. or 0°05' of arc counting from the cor. of Tps. 27 and 28 S., R.20 E.

True Lines

Thence from the cor. of Tps. 27 and 28 S., R.20 E.
N.89°55'W., bet. secs. 1 and 36.
Over rough, broken top of mesa through dense timber and medium growth of short brush.

38.90 Draw, 20 lks. wide, drains NE.
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for 1 sec. set, with brass cap marked

S36

+

S1
1926

from which

bearing 10

NORTH BOUNDARY OF T. 23 S., R. 22 E.

Chains

entered

A pinon, 10 ins. diam., bears S. 58° E., 101 lks.
dist., marked $\frac{1}{4}$ S 1 B T

A pinon, 10 ins. diam., bears N. 72° E., 83 lks.
dist., marked $\frac{1}{4}$ S 36 B T

- 41.20 Leave dense timber, bears N. and S.
71.20 Top of rise, bears N. and S.; gradually descend.
77.20 Enter medium growth of timber, bears SE. and W.
80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 28 ins. in the ground for cor. of secs. 1, 2, 35, and 36, with brass cap marked

T27S	R20E
S35	S36
S2	S1
T28S	
1926	

from which

- A juniper, 8 ins. diam., bears N. 76° 45' E., 237 lks.
dist., marked T 27 S R 20 E S 36 B T
A juniper, 12 ins. diam., bears S. 24° E., 232 lks.
dist., marked T 28 S R 20 E S 1 B T
A pinon, 6 ins. diam., bears S. 49° 45' W., 235 lks.
dist., marked T 28 S R 20 E S 2 B T
A juniper, 6 ins. diam., bears N. 43° W., 49 lks.
dist., marked B T.

Land, rough, broken mesa.
Soil, shallow sand and sandstone rock; 4th. rate.
Timber, scattered to dense growth of juniper and pinon.
Undergrowth, black brush, mountain rush and amole plant.

N. 89° 55' W., bet. secs. 2 and 35.

Over rolling mesa top through medium growth of timber and short brush.

- 40.00 On surface rock, mark a cross (X), over which
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

NORTH BOUNDARY OF T.28 S., R.20 E.

Chains

S35

S2

1926

80.00 from which

A pinon, 6 ins.diam., bears S.20°45'E., 70 lks.

dist., marked $\frac{1}{4}$ S 2 BTA juniper, 8 ins.diam., bears N.8 $\frac{1}{2}$ °W., 145 lks.dist., marked $\frac{1}{4}$ S 35 BT

Thence over rough, rocky mesa top.

80.00

On surface rock, mark a cross (X), over which

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.

in a large mound of stone for cor. of secs. 2,3,34,

and 35, with brass cap marked

T27S | R20E

S34 | S35

S3 | S2

T28S

1926

from which

A juniper, 3 ins.diam., bears N.82°E., 46 lks.

dist., marked BT

A pinon, 6 ins.diam., bears S.72 $\frac{1}{2}$ °E., 104 lks.

dist., marked T 28 S R 20 E S 2 B T

A pinon, 8 ins.diam., bears S.19°W., 175 lks.

dist., marked T 28 S R 20 E S 3 B T

A pinon, 5 ins.diam., bears N.30 $\frac{1}{2}$ °W., 104 lks.

dist., marked BT

Land, rolling and broken top of mesa.

Soil, shallow sand and rocky of sandstone formation;

4th. rate.

Timber, medium growth of juniper and pinon.

Undergrowth, black brush, mountain rush and amole plant.

N.89°55'W., bet. secs. 3 and 34.

Over rolling and broken mesa through medium growth of

timber and undergrowth.

NORTH BOUNDARY OF T.28 S., R.20 E.

Chains

continued

40.00

On surface rock, mark a cross (X), over which
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass
cap marked

$$\begin{array}{r} \frac{1}{4} \frac{834}{.83} \\ 1926 \end{array}$$

from which

A pinon, 6 ins.diam., bears S.7°45'W., 63 lks.

dist., marked $\frac{1}{4}$ S 3 B T

A pinon, 6 ins.diam., bears S.63°W., 33 lks.

dist., marked $\frac{1}{4}$ S 3 B T

No bearing tree available in sec. 34.

45.62

Top of high ledge rim and west point of Hatch Point,

bears NW. and SE.; leave timber. The line west
descends high ledges over which I cannot chain; to
determine the distance ahead on line I triangulate
as follows:

Set flag "A" ahead on line

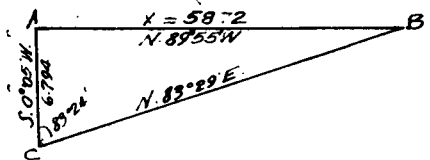
and erect flag "B" at

this point. From "A"

measure base line "AC"

S.0°05'W., 6.794 chs.

The line "CB" bears N.83°29'E. and the angle sub-
tended at "C" is 83°24'. All bearings taken by
direct reading of the solar and angles checked by
deflection.



Distance on line	= 46.52 chs.
Distance by triangulation	= 58.72 chs.
	105.24 chs.

The line to the east passes over precipitous S. slope
of spur along which it is impracticable to chain;
therefore, I offset as follows:

S.0°05'W., 6.79 chs., then on offset line

S.89°55'E., 25.24 chs. (return measurement), then

N.0°05'E., 2.82 chs. to a point 3.97 chs. S.0°05'W.

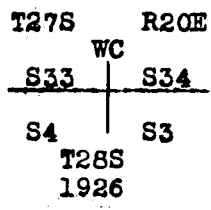
NORTH BOUNDARY OF T. 24 N. S. R. 20 E.

Chains

of the true cor. point for cor. of secs. 3,4,33, and 34 at

80.00

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for witness cor. to the cor. of secs. 3,4,33, and 34, with brass cap marked



Impracticable to build accessories to cor.

Land, E. 46.52 chs. rolling and broken top of mesa; remainder of mile rough, rugged breaks, sandstone ledges and talus slopes.

Soil, shallow sand and rocky of sandstone formation; 4th. rate.

Timber, juniper and pinon on E. 46.52 chs.

Undergrowth, mountain rush, black brush, shadscale and amole plant.

N.89°55'W., bet. secs. 4 and 33.

Being unable to project a line west from the true point for the cor. of secs. 3,4,33, and 34 on account of precipitous slope of spur, I begin at the witness cor. to the cor. of secs. 3,4,33, and 34 which is 3.97 chs. S.0°05'W. of the true cor. point and run on offset line as follows:

S.0°05'W., 2.82 chs., then on offset line

N.89°55'W., 25.24 chs., then

N.0°05'E., 6.79 chs. to true line at

25.24

Thence N.89°55'W. on true line bet. secs. 4 and 33 descending over broken bench land through short

NORTH BOUNDARY OF T.28 S., R.22 E.

Chains

undergrowth.

40.00

On surface rock, mark a cross (X), over which

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass
cap marked

$\frac{1}{4}$ S33
S4
1926

Impracticable to build accessories to cor.

52.47

Top of ledge and rim of box canyon, bears NW. and SE.;
on account of high impassable ledges I triangulate
across canyon as follows:

Set flag "A" on line to the

west and erect flag "B"

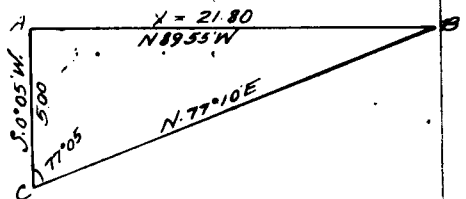
at this point. Then from

"A" measure base line "AC"

S.0°05'W., 5.00 chs. distant. The line "CB" bears

N.77°10'E. and the angle subtended at "C" is 77°05'.

All bearings taken by direct reading of the solar
and angles checked by deflection.



Distance by triangulation = 21.80 chs.

74.27

To point of triangulation and top of ledge and west
rim of box canyon, bears NW. and SE.

Note: The bottom of the canyon which is approximately
300 ft. and draining NW., bears east about 14 chs.
distant.

Thence along rough N. slope.

80.00

On surface rock, mark a cross (X), over which

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.
in a large mound of stone for cor. of secs. 4, 5, 32,
and 33, with brass cap marked

T27S R20E
S32 S33

S5 S4
T28S
1926

NORTH BOUNDARY OF T.28 S., R.20 E.

Chains

Impracticable to build accessories to cor.

Land, rough, rugged mountainous bench or mesa land.

Soil, shallow sand and surface rock of sandstone formation; 4th. rate.

No timber.

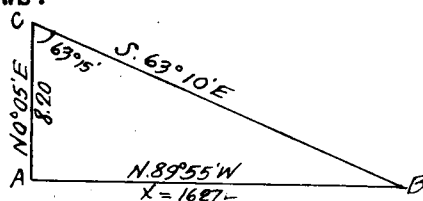
Undergrowth, scattered black brush, shadscale and yellow top.

N.89°55'W., bet. secs. 5 and 32.

Descend NW. slope over rough, broken bench land through scattered undergrowth.

20.53 Top of ledge and east rim of the Colorado River Canyon, bears N. about 2 chs. thence W., and S. about 6 chs. thence W. The line west strikes high vertical sandstone rims over which it is impracticable to chain, therefore I triangulate as follows:

Set flag "A" on line to the west and erect flag "B" at this point; then, from "A" measure base line "AC" N.0°05'E., 8.20 chs.



distant. The line "CB" bears S.63°10'E. and the angle subtended at "C" = 63°15'. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 16.27 chs.

25.00 Approximate distance to bottom of canyon, drains NW.

36.80 To point of triangulation ; descend abruptly.

40.00 At foot of ledge, 60 ft. high and in east side of bottom of Colorado River Canyon, bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for $\frac{1}{4}$ sec. cor., with brass cap marked

NORTH BOUNDARY OF TOWN 35 NORTH R.

chain 43

Chains

S32

S5

1926

Impracticable to build accessories to cor.

Thence over river bottom through dense undergrowth.

- 45.29 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 5 and 32 on the left bank of the Colorado River, with brass cap marked

W	T27SR20E.
M	S32
C	S5
	T28SR20E

1926

Impracticable to build accessories to cor.

- 45.53 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 5 and 32.

To determine distance across river I triangulate as follows:

Set flag "C" on line near right bank of the river . I

now return to the

witness cor. to the

meander cor. on the

left bank which I

designate "B" and with

the telescope directed

to "C" deflect an angle

of 99°06'30" to the left

and set flag "A" on a sand

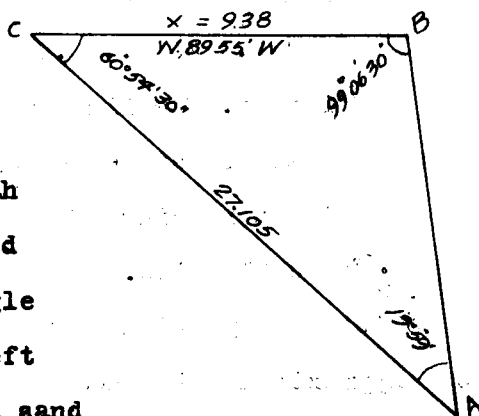
bar near the right bank of the river. From point "C"

with the telescope directed to "B" I deflect an angle

60°54'30" to "A". The base line "CA" is 27.105 chs.

the mean of two chainings and the angle at "A" is

19°59'. All angles determined by repetition.



Distance on line to point "B"	= 45.29 chs.
Distance "BC" by triangulation	= 9.38 chs.
	54.67 "

NORTH BOUNDARY OF T.28 S., R.20 E.

Chains

Distance by return measurement = .10 chs.

54.57 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 5 and 32.

54.67 Point of triangulation.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins in the ground for witness cor. to the meander cor. of secs. 5 and 32 on the right bank of the Colorado River, with brass cap marked

T278R20E	
S32	W
S5	M
T28SR20E	C

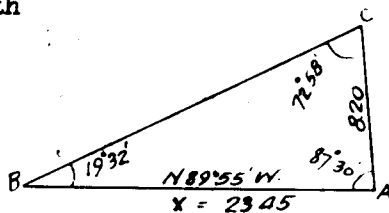
1926

from which

A sandstone ledge, marked S5 X B0, bears S.51°W., 1.32 chs. distant.

The line west ascends high ledges and breaks of river up which I cannot chain; to determine distance ahead on line I triangulate as follows:

Return to my point at 36.80 chs. on line bet. secs. 5 and 32 which I designate "A" and set flag "B" on line to the west; then with the telescope directed to "B" deflect an angle of 87°30' to the right and measure base line "AC", 8.20 chs. distant. The angle subtended at "C" is 72°58' and at "B" 19°32', all determined by repetition.



Distance by triangulation = 23.45 chs.

60.25 To point of triangulation on top of ledge and west rim of the Colorado River Canyon, bears N.15°W. and S.15°W.; thence over rough bench land broken by ledges.

75.70 Rocky spur, projects NW. about 10 chs. distant.

NORTH BOUNDARY OF T. 28 N. R. 20 E.

Chains

80.00

On surface rock, mark a cross (X), over which
Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.
in a large mound of stone for cor. of secs. 5, 6, 31,
and 32, with brass cap marked

T27S	R20E
S31	S32

S6	S5
T28S	
1926	

from which

A sandstone ledge, marked S5 X B0, bears

S.74°06'E., 79 lks. distant.

Land, rough benches broken by ledges and cut by box
canyons; general E. and W. exposure and drainage to
the Colorado River.

Soil, shallow sand and rocky of sandstone formation;
4th. rate.

No timber.

Undergrowth, shadscale, yellow top, black brush, rabbit
brush and willows.

N.89°55'W., bet. secs. 6 and 31.

Over rough, rocky bench land broken by ledges and cut
by numerous small box canyons draining NE.

40.00

On surface rock, mark a cross (X), over which,
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass
cap marked

S31

S6
1926

Impracticable to build accessories to cor.

60.75

Top of a red sandstone rim, 60 ft. high, bears N.5°E.
and S.

69.00

Edge of white sandstone rim, 50 ft. high, bears N.10°W.
and S.15°E.

SUBDIVISION OF T.28 S., R.20 E.

Chains

71.35

Trail, bears N. and S.

79.34

The cor. of Tps. 27 and 28 S., Rs. 19 and 20 E. here-
to fore described.

Land, rough, rocky benches broken by ledges and cut by
numerous box canyons; general NE. exposure and
drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Undergrowth, shadscale, yellow top and mountain rush.

SUBDIVISION OF T.28 S., R.20 E.

From the cor. of secs. 1, 2, 35, and 36 on the S. bdy. of
the Tp., which is an iron post, 2 ins. in dia., firmly
set, and marked and witnessed as described in the
field notes of the survey of T.29 S., R.20 E., book
"A" this group.

N.0°01'W., bet. secs. 35 and 36.

Gradually descend over rolling land in bottom of Lockhart
Basin, through scattered short undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in
the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S35 | S36
 1927

Deposit a sandstone, 5x3x2 ins. marked with a cross (X)
on one face at base of monument.

Cor. stands on gentle N. slope, 70 ft. below sec. cor.

67.30 South fork of Lockhart Wash, 20 lks. wide, 3 ft. deep,
drains NW.

80.00 On gentle N. slope 70 ft. below $\frac{1}{4}$ sec. cor.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in

SUBDIVISION OF T. 28 S. 2. 22 E.

Chains

the ground for cor. of secs. 25, 26, 35, and 36, with
brass cap marked

T28S	R20E
S26	S25

S35	S36
1927	

Note: The regulation 2 inch iron post was not available
for this cor.

Impracticable to build accessories to cor.

Land, gently rolling in bottom of Lockhart Basin; general
N. exposure and drainage.

Soil, sandy loam and sandstone rock in form of boulders;
2nd. and 4th. rates.

No timber.

Undergrowth, mountain rush, white sage, rabbit brush
and grass.

S. 89° 59' E., on a random line bet. secs. 25 and 36.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect E. bdy., of the Tp. 11 lks. N. of the cor. of
secs. 25, 30, 31 and 36 heretofore described.

Thence

N. 89° 54' W., on true line bet. secs. 25 and 36.

Over rolling land in bottom of Lockhart Basin through
scattered undergrowth. Gradually descend W. slope.

7.60 Shallow draw, drains NW.; ascend NE. slope 20 ft. to

11.50 Spur, projects NW.; descend 40 ft. over W. slope to

32.60 Draw, drains NW.; gradually ascend.

40.02 On gentle NE. slope.

Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in
the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$	S25
---------------	-----

S36
1927

Deposit a sandstone, 8x5x3 ins. marked with a cross (X)
on one face at base of monument.

No other accessories available.

SURVEY OF T. 25 S., R. 20 E.

Chains

44.00 Top of a sand hill, bears NW. and SE.; descend 40 ft.

77.00 Wash, 20 lks. wide, 3 ft. deep, drains NW.

80.04 The cor. of secs. 25, 26, 35, and 36.

Land rolling, in bottom of Lockhart Basin; general W. exposure and NW. drainage.

Soil, sandy loam streaked with rock of sandstone formation; 2nd. and 4th. rates.

No timber.

Undergrowth, mountain rush, shadscale, yellow top and grass.

N. 0° 01' W., bet. secs. 25 and 26.

Gradually descend over rolling land sloping N. through short undergrowth.

4.60 Wash, 50 lks. wide, 4 ft. deep, drains NW.

7.10 Road, from Indian Creek to Lockhart, bears NE. and SW.

15.50 Begin descent over NE. slope into Lockhart Canyon.

19.20 Road, from Indian Creek to Lockhart, bears NW. and SE.

23.80 North fork of Lockhart Wash, 50 lks. wide, 4 ft. deep, drains NW.; thence across Lockhart Canyon.

30.40 Leave canyon and begin ascent over rocky S. slope, bears NW. and SE.

32.80 Low spur, 75 ft. above wash, projects W.; descend N. slope 65 ft. to

40.00 On surface rock, mark a cross (X), over which, Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S26 | S25
 1926

Impracticable to build accessories to cor.

The line north ascends high vertical sandstone ledges

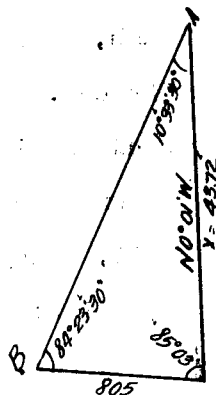
SUBDIVISION OF T.28 S., R.20 E.

AN 1870

Chains

up which I cannot chain; to determine distance ahead on line I triangulate as follows:

Set flag "A" on line to the north, then, from the $\frac{1}{4}$ sec. cor. and with the telescope directed to "A" deflect an angle of $85^{\circ}03'$ to the left and measure base line 8.05 chs. distant



to point "B". The angles at "B" and "A" determined by repetition are $84^{\circ}23'30''$ and $10^{\circ}33'30''$ respectively.

Distance by triangulation	= 43.72 chs.
Total distance to point "A", add	<u>40.00</u> "
	83.72 "
Distance by return measurement	= <u>.92</u> "
	82.80 "

The approximate distances to items of topography from the $\frac{1}{4}$ sec. cor. are:

47.00	Wash, 30 lks. wide, 4 ft. deep, drains N.80°W.
48.00	Foot of ledges, bears NW. and SE.; ascend abruptly.
78.00	Ledge rim, about 400 ft. high, bears E. and W.
80.00	Point for cor. of secs. 23,24,25, and 26 falls on inaccessible sandstone ledge where cor. cannot be set.
82.80	Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for witness cor. to the cor. of secs. 23,24,25, and 26, with brass cap marked

T28S	R20E
S23	S24
S26	S25
WC	
1927	

Impracticable to build accessories to cor.

Land, S.30.40 chs. rolling land in Lockhart Basin; remainder of mile rough, rugged slopes broken by sandstone ledges; general W. exposure and drainage. Soil, shallow sand and sandstone rock; 4th. rate.

S. OS SUBDIVISION OF T. 25 S., R. 20 E.

Chains

No timber.

Undergrowth, shadscale, mountain rush and yellow top.

S. 89°54'E., on a random line bet. secs. 24 and 25.

Being unable to project a line east from the true cor.

point for cor. of secs. 23, 24, 25, and 26 on account of

ledges and rims, I begin at the witness cor. to

the cor. of secs. 23, 24, 25, and 26 which is 2.80 chs.

N. 0°01'W. of the true point.

Thence

S. 89°54'E., on offset/random
line, 40.00 chs., then

S. 0°01'E., 2.80 chs. to true random line at

40.00 Set temp. $\frac{1}{4}$ sec. cor.

Thence, S. 89°54'E., on true random line.

50.99 The line east strikes high sandstone rims over which

I cannot chain; to determine distance ahead on line

I triangulate as follows:

Set flag "A" on line S. 89°54'E.

and erect flag "B" at this

point; then, from flag "A"

with telescope directed to

"B" deflect an angle of

91°35' to the right and measure base line "AC", 5.844

chs. distant. The angles subtended at "C" and "B"

determined by repetition are 75°33' and 12°52'

respectively.

Distance by triangulation = 25.41 chs.

76.40 Point "B" of triangulation.

80.20 Intersect E. bdy. of Tp. 21 lks. S. of the cor. of

secs. 19, 24, 25, and 30 heretofore described.

Thence

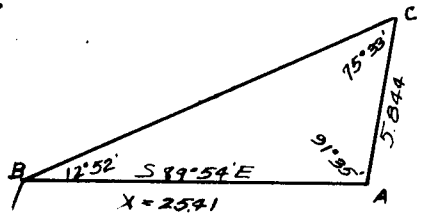
S. 89°57'W., on true line bet. secs. 24 and 25.

Ascend along rugged S. slope over rough, broken land

through short undergrowth.

3.80 Top of spur, 110 ft. above sec. cor., projects S.;

thence by triangulation across precipitous S. slope



SUBDIVISION OF T.28 S., R.20 E.

anland

CHAINS

broken by sandstone ledges.

29.21 Top of ledge rim, 150 ft. high, bears NE. and SW.;
continue over rough and broken ground.

40.10 On surface rock, mark a cross (X), over which
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
in a large mound of stone for $\frac{1}{4}$ sec. cor., with
brass cap marked

824
+
825
1927

Impracticable to build accessories to cor.

Thence on offset as follows:

N.0°01'W., 2.80 chs., then on offset line

S.89°57'W., 80.20 chs. (counted from sec. cor.) over
broken south slope to

80.20 The witness cor. to the cor. of secs. 23, 24, 25, and 26
which is 2.80 chs. N.0°01'W. from true cor. point.

Land, rough, rugged breaks of mesa; general S. exposure
and drainage.

Soil, shallow sand and sandstone rock; 4th rate.

No timber.

Undergrowth, scattered shadscale and mountain rush.

N.0°01'W., bet. secs. 23 and 24, counting distances from
true cor. point for the cor. of secs. 23, 24, 25, and 26.

Being unable to commence at the true cor. point for cor.
of secs. 23, 24, 25, and 26, I begin at the witness cor.
to said sec. cor.

Over rough, rugged sandstone breaks through short
undergrowth.

2.80 The witness cor. to the cor. of secs. 23, 24, 25, and 26.

3.72 The line north passes over vertical sandstone ledges and
precipitous slopes up which I cannot chain; therefore
I triangulate as follows:

Set flag "A" ahead on line; then, with the telescope

SUBDIVISION OF T.28 S., R.20 E.

Chains

13.00 Directed to "A" deflect

an angle of $90^{\circ}00'$ to the

left and measure base 10.00

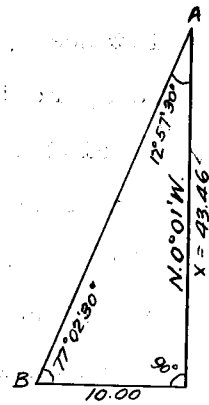
chrs. distant to point "B".

The angles subtended at "B"

and "A" determined by

repetition are $77^{\circ}02'30''$ and

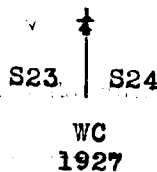
$12^{\circ}57'30''$ respectively.



Distance by triangulation = 43.46 chs.

40.00 Point for $\frac{1}{4}$ sec. cor. falls in triangulation on inaccessible sandstone ledges.

47.18 Point of triangulation on spur, 500 ft. above the witness cor. to the cor. of secs. 23, 24, 25, and 26, slopes W. Set and iron post, 3 ft. long, 1 in. in dia., 8 ins. in the ground on solid rock and 20 ins. in a mound of stone for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked



Deposit a sandstone, 8x6x4 ins., marked with a cross (X) on one face at base of monument.

51.11 Spur, projects W. The line north descends high sandstone ledges over which I cannot chain; to determine the distance to point ahead I triangulate as follows:

Set flag "A" ahead on line;

then, with the telescope

directed to "A", deflect

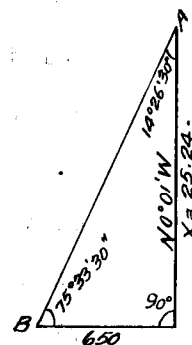
an angle of $90^{\circ}00'$ to the

left and measure base line

6.50 chs. distant to point

"B". The angles subtended at

"B" and "A" are $75^{\circ}33'30''$ and $14^{\circ}26'30''$ respectively.



SUBDIVISION OF T. 28 S., R. 20 E.

Chains

Distance by triangulation 25.24 chs.

The approximate topography north from the 51.11 chs.

point is:

64.00 Foot of spur; thence across broken bench land.

76.35 Point of triangulation; continue over broken bench.

80.00 On surface rock, mark a cross (X), over which

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.

in a large mound of stone for cor. of secs. 13, 14, 23,

and 24, with brass cap marked

T28S	R20E.
S14	S13
S23	S24

1927

Impracticable to build accessories to cor.

Land, rough, rugged breaks of mesa; general W. exposure and drainage.

Soil; sandy, gravelly and rocky of sandstone formation; 4th. rate.

No timber.

Undergrowth, blackbrush and shadscale.

N. 89° 57' E., on a random line bet. secs. 13 and 24.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

40.10 High ledges up which I cannot chain; to determine distance to top I triangulate as follows:

Set point "A" on line East

and erect flag "B" at this

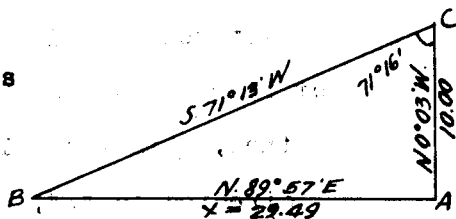
point; then, from "A"

measure base line "AC"

N. 0° 03' W., 10.00 chs.

distant. The line "CB" bears 8.71° 13' W. and the

angle subtended at "C" determined by deflection is 71° 16'.



Distance by triangulation = 29.49 chs.

69.19 Point of triangulation.

SUBDIVISION OF T.28 S., R.20 E.

Chains

- 80.10 Intersect E. bdy. of Tp. 7 lks. N. of the cor. of
secs. 13, 18, 19, and 24 heretofore described.
Thence
West, on true line bet. secs. 13 and 24.
Over nearly level top of high mesa known as Hatch Point,
through juniper and pinon timber and short undergrowth.
- 10.51 Top of sandstone ledge about 300 ft. high and west rim
of top of mesa, bears N. and S.; leave timber. Thence
over precipitous breaks of mesa.
- 40.05 At base of precipitous slope, 1000 ft. below brink;
On surface rock, mark a cross (X), over which
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass
cap marked
- S13

$\frac{1}{4}$ ———

824

1927
- Impracticable to build accessories to cor.
- 59.80 Wash, 30 lks. wide, 4 ft. deep, 75 ft. below $\frac{1}{4}$ sec. cor.,
drains NW.; gradually descend.
- 65.10 Top of ascent, bears NW. and S.
- 66.00 Wash, 20 lks. wide, 3 ft. deep, drains NW.
- 80.10 The cor. of secs. 13, 14, 23, and 24.
Land, E. 10.51 chs. nearly level top of high mesa; re-
mainder of mile precipitous breaks and rough broken
bench land; general W. exposure and drainage.
Soil, shallow sand and sandstone rock; 4th rate.
Timber, juniper and pinon on E. 10.51 chs.
Undergrowth, mountain rush and black brush.

N.0°01' W., bet. secs. 13 and 14.

Over rough broken bench land through short undergrowth.

7.10 Draw, drains NW.

Chains

24.65 Draw, drains NW. 1/4 sec. 11, 12, 13, and 14 to NW. 1/4 sec. 11, 12, 13, and 14. 01.08

40.00 On surface rock, mark a cross (X), over which
Set an iron post, 3 ft. long, 1 in. in diam., 30 ins.
in a large mound of stone for 1/4 sec. corner, with brass
cap marked with "S11" and "S13" and "1927". 13.01

64.10 Draw, drains W. 1/4 sec. 11, 12, 13, and 14 to NW. 1/4 sec. 11, 12, 13, and 14. 30.04

72.89 Point for the cor. of secs. 11, 12, 13, and 14 will fall
on inaccessible ledges on breaks of mesa where cor.
can not be set; therefore, at this point,
Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in
a large mound of stone over a cross cut in surface
rock for witness cor. to the cor. of secs. 11, 12, 13,
and 14 with brass cap marked
WC
T28S R20E
S11 S12
S14 S13
1927
Impracticable to build accessories to cor. 11.00

73.00 Base of sandstone ledge, 100 ft. high, bears E. and W. 08

80.00 Point for cor. of secs. 11, 12, 13, and 14 falls in inacc-
essible breaks of mesa; cor. point cannot be reached.
Land, rough, broken bench or mesa land and precipitous
talus slopes; general SW. exposure and drainage.
Soil, shallow sand and sandstone rock; 4th rate.
No timber.
Undergrowth, shadscale.

East, on random line bet. secs. 12 and 13.
Being unable to run east from the true point for the
cor. of secs. 11, 12, 13, and 14 on account of ledges,

SUBDIVISION OF T.28 S., R.20 E.

Chains

I commence at the witness cor. to the cor. of secs. 11, 12, 13, and 14 which is 7.11 chs. S.0°01'E. of the true cor. point.

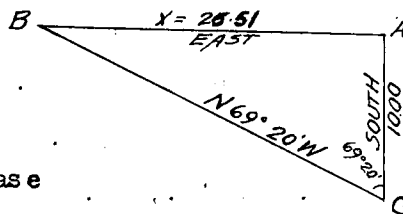
Thence on offset line

East, 37.59 chs., then

N.0°01'W., 4.50 chs. to a point 2.41 chs. west and 2.61 chs. S.0°01'E. of the true point for temp. $\frac{1}{4}$ sec. I am unable to reach true random line at this point neither am I able to continue east, therefore, I offset S.0°01'E., 4.50 chs., then

East, on offset 26.51 chs. by triangulation as follows:

Set flag "A" on top of high ledge to the east and erect flag "B" at this point. From "A" measure base line "AC" south, 10.00 chs.



distant. The line "CB" bears N.69°20'W. and the angle at "C" determined by repetition is 69°20'

Distance by triangulation = 26.51 chs.

64.10 Offset N.0°01'W., 7.11 chs. to true line, thence East

79.92 Intersect E. bdy. of the Tp. 7 lks. N. of the cor., of secs. 7, 12, 13, and 18 heretofore described.

Thence

N.89°57'W., on true line bet. secs. 12 and 13.

Over nearly level top of mesa known as Hatch Point, through dense timber and short undergrowth.

15.82 Offset S.0°01'E., 7.11 chs. to point on top of high ledge and rim of Hatch Point, bears NW. and S. Ledge about 300 ft. high. Leave timber, thence

N.89°57'W., on offset line by triangulation over high ledges and breaks of mesa, 26.51 chs., then S.0°01'E., 4.53 chs. to a point 2.57 chs. S.0°01'E. and 2.37 chs. N.89°57'W. of the true point for the

SUBDIVISION OF T.28 S., R.20 E.

Chains

$\frac{1}{4}$ sec. cor. bet. secs. 12 and 13. I am unable to reach the true point for the $\frac{1}{4}$ sec. cor. on account of ledges, neither am I able to establish a cor. on the true line within 10 chs. of the true cor. point; therefore, at this point,

Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and 12 ins. in a mound of stone for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

WC
 $\frac{1}{4}$ $\frac{S12}{S13}$
 1927

Deposit a sandstone 7x6x5 ins., marked with a cross (X) at base of post.

Offset, south, 4.55 $\frac{1}{2}$ chs., then on offset

N.89°57'W., 37.59 chs. along very rugged and broken south slope to

79.92 The witness cor. to the cor. of secs. 11, 12, 13, and 14, 7.11 chs. S.0°01'E. of the true point for said sec. cor.

Land, E.15.82 chs. nearly level top of mesa; remainder of mile rough, rugged breaks of mesa and steep talus slopes; general W. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

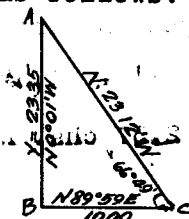
Timber, dense juniper and pinon on E.15.82 chs.

Undergrowth, black brush, mountain rush and shadscale.

N.0°01'W., bet. secs. 11 and 12.

Being unable to project my line north from the true cor. point for cor. of secs. 11, 12, 13, and 14 on account of inaccessible ledges, I begin at the witness cor. to said sec. cor. which is 7.11 chs. S.0°01'E. of the true cor. point and proceed as follows:

Set flag "A" on line on top of high ledge to the north and designate



... A SUBDIVISION OF T.28 S., R.20 E.

Chains

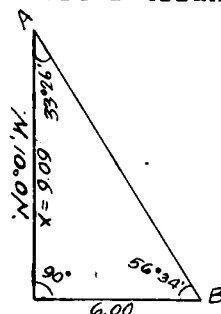
the witness cor. to the cor. of secs. 11,12,13, and 14 point "B". Measure base line "BC" N.89°59'E., 10.00 chs. distant. The line "CA" bears N.23°12'W. and the angle subtended at "C" is 66°49'. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 23.35 chs.
 Subtract $\frac{7.11}{16.24}$ "
 Distance on line bet. secs. 11 and 12 = 16.24 "

16.24 Top of ledge about 300 ft. high and rim of Hatch Point 1000 ft. above witness cor. to the cor. of secs. 11,12,13, and 14, bears E! and W. Thence over top of high mesa through dense timber and short undergrowth.

30.13 Top of ledge about 300 ft. high and rim of mesa, bears E. and W. Leave timber. Precipitous descent over ledges down which I cannot chain; therefore I triangulate as follows:

Set flag "A" on line N.0°01'W.;
 then, with the telescope directed to "A" deflect an angle of 90°00' to the right and measure base line 6.00 chs. distant to



point "B". The angles at "B" and "A" determined by repetition are 56°34' and 33°26' respectively.

Distance by triangulation = 9.09 chs.

39.22 To N. point of triangulation, 450 ft. below rim of mesa; descend abruptly.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and 12 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

S11 | S12

1927

Impracticable to build accessories to cor.

45.00 The line north crosses a box canyon with vertical walls

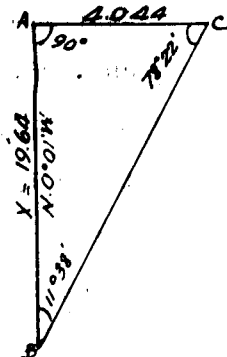
SUBDIVISION OF T.28 S., R.20 E.

Chains

of sandstone across which I cannot chain; therefore
I triangulate as follows:

Set point "A" on line N.0°01'W.

and erect flag "B" at this
point; then, from "A" with
the telescope directed to
"B" deflect and angle of
90°00' to the left and



measure base line "AC", 4.044 chs. distant. The
angles at "B" and "C" determined by repetition are
11°38' and 78°22' respectively.

Distance by triangulation = 19.64 chs.

The approximate distance of items of topography from the
45.00 chs. point is:

- 49.00 South rim of box canyon, bears E. and W.
- 53.00 Bottom of box canyon, drains W.
- 55.00 North rim of box canyon, bears E. and W.
- 64.64 N. point of triangulation; thence over rough, broken
ground.
- 67.65 Spur, projects W.; descend 210 ft. to
- 80.00 On surface rock, mark a cross (X), over which
Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.
in a large mound of stone for cor. of secs. 1, 2, 11 and
12, with brass cap marked

T28S	R20E
S2	S1
S11	S12
1927	

Impracticable to build accessories to cor.

Land rough, rugged bench land and nearly level mesa.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, dense juniper and pinon on mesa.

Undergrowth, black brush and mountain rush.

S.89°57'E., on a random line bet. secs. 1 and 12.

SUBDIVISION OF T.28 S., R.30 E.

Chains

The line east ascends high ledges and breaks of mesa, up which I cannot chain. To determine the distance to top I triangulate as follows:

Set point "A" on line S. 89° 57' E.,

and erect flag "B" at the

cor. of secs. 1, 2, 11, and 12;

then, from "A" with the

telescope directed to "B"

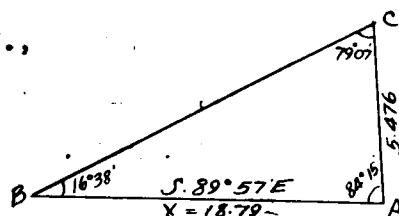
deflect an angle of 84° 15' to the right and measure

base line "AC" 5.476 chs. distant. The angles sub-

tended at "B" and "C" are 16° 38' and 79° 07' respect-

ively. All the above angles were determined by

repetition.



Distance by triangulation = 18.79 chs.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.26 Intersect E. bdy. of the Tp. 2 lks. S. of the cor. of secs. 1, 6, 7, and 12 heretofore described.

Thence

N. 89° 58' W., on true line bet. secs. 1 and 12.

Over rolling top of mesa through medium growth of timber and short undergrowth.

40.13 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap marked

S1
—
 $\frac{1}{4}$
S12
1927

from which

A juniper, 6 ins. diam., bears N. 68 $\frac{1}{4}$ ° E., 270 lks. dist., marked $\frac{1}{4}$ S 1 B T

A juniper, 12 ins. diam., bears S. 60° E., 162 lks. dist., marked $\frac{1}{4}$ S 12 B T

61.47 Point on top of high vertical ledge 250 ft. high and west rim of Hatch Point, bears NW. and SW.; leave mesa and timber, thence by triangulation over high

To know a line of 31 lks. dist. from the above

SUBDIVISION OF T.28 S., R.20 E.

Chains

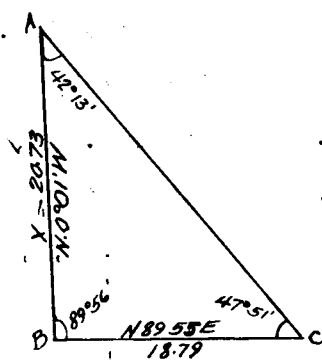
ended

60.26 ledges and precipitous breaks of mesa to
The cor. of secs. 1,2,11 and 12.
Land, E. 61.47 rolling mesa top; remainder of mile is
rough, rugged breaks of mesa; general W. drainage.
Soil, shallow sand and rocky of sandstone formation;
4th. rate.
Timber, medium growth of juniper and pinon on E.61.47 chs.
Undergrowth, mountain rush and black brush.

N.0°01'W., on a random line bet. secs. 1 and 2.

The line north ascends high ledges and break of mesa, up
which I cannot chain. To determine distance to top I
triangulate as follows:

Set flag "A" on line to the
north; designate the cor.
of secs.1,2,11 and 12
point "B"; then with the
transit over point "B" and
the telescope directed to



"A" deflect an angle of 89°56' to the right and set
point "C". The base line "BC" bears N.89°55'E., 18.79
chs., and the angles subtended at "C" and "A" deter-
mined by repetition are 47°51' and 42°13' respect-
ively.

Distance by triangulation = 20.73 chs.

40.00 Set temp. & sec. cor.

80.20 Intersect E. bdy. of the Tp. 33 lks. W. of the cor. of
secs. 1,2,35, and 36 heretofore described.

Thence

S.0°13'W., on true line bet. secs. 1 and 2.

Gradually ascend over rolling mesa known as Hatch Point
through juniper and pinon timber and short undergrowth.

16.20 Top of rise, bears E. and W.; gradually descend.

40.23 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in
the ground on solid rock and 18 ins. in a mound of

SUBDIVISION OF T.28 S., R.20 E.

Chains

stone for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
S2 | S1

1927

from which

A pinon, 6 ins.diam., bears N.59°45'E., 47 lks.

dist., marked $\frac{1}{4}$ S 1 B T

A juniper, 12 ins.diam., bears S.24 $\frac{1}{2}$ °W., 40 lks.

dist., marked $\frac{1}{4}$ S 2 B T

59.50 Point on top of high, nearly vertical ledge 250. high
and rim or edge of mesa, bears NW. and SE. Leave
timber, thence by triangulation over precipitous
slopes of mesa to

80.23 The cor. of secs. 1,2,11 and 12.

Land, N. 59.50 chs. rolling top of mesa; remainder of
mile rough, rugged breaks; general S. exposure and
W. drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon on N. 59.50 chs.

Undergrowth, black brush and mountain rush.

From the cor. of secs. 2,3,34, and 35 on the S. bdy. of
the Tp. which is an iron post, 2 ins. in dia., firmly
set, and marked and witnessed as described in the
field notes of the survey of T.29 S., R.20 E., book
"A" this group.

N.0°01'W., bet. secs. 34 and 35.

Over rolling and broken land through short undergrowth.

8.80 Wash, 30 lks. wide, 4 ft. deep, drains NE.; gradually
ascend SE. slope.

14.10 Low spur, projects NE.; gradually descend.

18.40 Wash, 50 lks. wide, 6 ft. deep, drains NE.; gradually
ascend.

21.30 Trail, from Indian Creek to Lockhart, bears NE. and SW.

SUBDIVISION OF T.28 S., R.20 E.

Chains

32.80	Begin descent over NW. slope.				
40.00	On NW. slope. Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for $\frac{1}{4}$ sec. cor., with brass cap marked				
	<div style="text-align: center;"> $\frac{1}{4}$ S34 S35 1927 </div>				
	Impracticable to build accessories to cor.				
43.00	Wash, 40 lks. wide, 4 ft. deep, 50 ft. below $\frac{1}{4}$ sec. cor., drains NE.; gradually ascend SE. slope.				
48.75	Top of ledge, 30 ft. high, bears E. and W.; descend.				
64.00	Draw, 50 ft. deep, drains E.; ascend.				
74.00	Road, from Indian Creek to Lockhart, bears E. and W.				
80.00	In small draw, drains SE. Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground on solid rock and 20 ins. in a large mound of stone for cor. of secs. 26, 27, 34, and 35, with brass cap marked				
	<div style="text-align: center;"> <table border="1"> <tr> <td>T28S</td><td>R20E</td></tr> <tr> <td>S27</td><td>S26</td></tr> </table> S34 S35 1927 </div>	T28S	R20E	S27	S26
T28S	R20E				
S27	S26				
	Impracticable to build accessories to cor.				
	Land, rolling and broken; general NE. exposure and drainage.				
	Soil, shallow sand and sandstone rock; 4th. rate.				
	No timber.				
	Undergrowth, shadscale and mountain rush.				
	S.89°59'E., on a random line bet. secs. 26 and 35.				
40.00	Set temp. $\frac{1}{4}$ sec. cor.				
79.98	Intersect N. and S. line 2 lks. N. of the cor. of secs. 25, 26, 35, and 36.				
	Thence				

SUBDIVISION OF T.28 S., R.20 E.

Chains	
	N.89°58'W., on true line bet. secs. 26 and 35.
	Over rolling and broken ground through short undergrowth.
4.00	South Fork of Lockhart Wash, 40 lks. wide, 4 ft. deep, drains N.
6.00	Wash, 50 lks. wide, 2 ft. deep, drains N.20°E.
7.90	Road, from Indian Creek to Lockhart, bears N. and S.
39.99	On surface rock, mark a cross (X), over which Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ <u>S26</u> S35 1927
	Impracticable to build accessories to cor.
51.40	Thence along general S. slope.
79.98	The cor. of secs. 26,27,34, and 35. Land, rolling and broken; general N. exposure and drain- age. Soil, shallow sand and sandstone rock; 4th. rate. No timber. Undergrowth, shadscale and mountain rush.
	<hr/>
	N.0°01'W., bet. secs. 26 and 27.
	Over rolling and broken ground through through scattered short undergrowth.
23.18	Set flag for future reference.
23.22	Low ridge, bears NE. and SW.
36.69	Point for $\frac{1}{4}$ sec. cor. will fall on a steep sandstone spur where cor. cannot be set; therefore, at this point, Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

SUBDIVISION OF T.28 S. R.20 E.

Chains

oriented

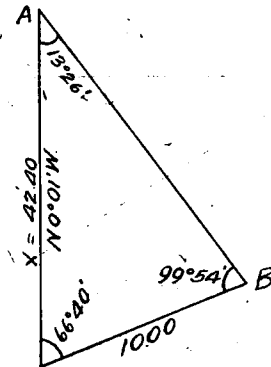
W C
S27 | S26

1927

Impracticable to build accessories to cor.

Being unable to chain across sandstone spur, immediately north of this point, and which is about 50 ft. high and projecting E., I return to my point at 23.18 chs. and make the following triangulation;

Set flag "A" ahead on line; then, with transit over the 23.18 chs. point and with the telescope directed to "A" deflect an angle of $66^{\circ}40'$ to



the right and measure base line 10.00 chs. distant to point "B". The angles subtended at "A" and "B" determined by repetition are $13^{\circ}26'$ and $99^{\circ}54'$ respectively.

Distance by triangulation = 42.40 chs.

- 40.00 Point for $\frac{1}{4}$ sec. cor. on inaccessible slope of spur.
- 65.58 Point of triangulation on top of ledge and rim of Lockhart Canyon, bears NE. and SW.; descend abruptly 270 ft. to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 8 ins. in the ground on solid rock and 20 ins. in a mound of stone for cor. of secs. 22, 23, 26, and 27, with brass cap marked

T28S	R20E
S22	S23
S27	S26
1927	

Deposit a sandstone, 10x8x6 ins., marked with a cross (X) on one face at base of monument.

Land, rough bench land broken by sandstone rims and led-

SUBDIVISION OF T.28 S., R.20 E.

Chains

ges; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th rate.

No timber.

Undergrowth, shadscale.

S.89°58'E., on a random line bet. secs. 23 and 26.

39.30 Set temp. $\frac{1}{4}$ sec. cor. Impossible to set temp. $\frac{1}{4}$ sec. cor. at 40.00 chs.

The line east ascends high sandstone ledge rims over which I cannot chain; to determine distance ahead on line I triangulate as follows:

Return to a point at

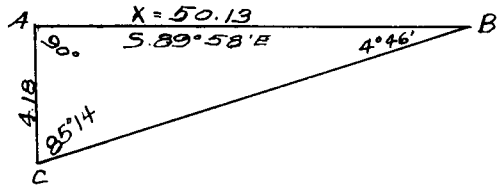
12.41 chs. on random

line which I designate

"A" and set flag "B"

on line S.89°58'E.; then

with transit over point



"A" and with telescope directed to "B" deflect an angle of 90°00' to the right and measure base line "AC" 4.18 chs. distant. Longer base impracticable. The angles subtended at "C" and "B" determined by repetition are 85°14' and 4°46' respectively.

Distance by triangulation = 50.13 chs.

62.54 Point B of triangulation.

71.26 Line east of this point strikes high sandstone ledges, and points, to pass which I offset as follows:

North, 2.80 chs., then on offset line

S.89°58'E., 9.00 chs. to

80.26 Intersect N. and S. line 5 lks. N. of the witness cor.

to the cor. of secs. 23,24,25, and 26 established

2.80 chs. N.0°01'W. of the true point. Impossible

to reach the true cor. point on account of ledges.

Thence from the witness cor. to the cor. of secs. 23,24, 25, and 26.

N. 89°56'W., on offset to true line bet. secs. 23 and

26, 9.00 chs.

SUBDIVISION OF T.28 S., R.20 E.

Chains

ENTRANCE

Over rough, rugged S. slope of break of mesa.

Thence South, 2.80 chs. to true line at

9.00 Thence N.89°56'W. on true line.

Over steep slopes and sandstone ledges facing S.

17.72 Top of ledge rim, 100 ft. high, bears NW. and SE.; thence
over sandstone ledges and precipitous slopes.

40.13 Point for $\frac{1}{4}$ sec. cor. falls on an inaccessible sandstone
point projecting S. and cor. point cannot be reached.

40.96 On surface rock, mark a cross (X) over which

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.

in a large mound of stone for witness cor. to the $\frac{1}{4}$

sec. cor., with brass cap marked

S23
+-----W
S26
1927

Impracticable to build accessories to cor.

47.35 Sandstone ledge, 50 ft. high, bears N. and S.; descend
over broken ground into Lockhart Canyon.

60.15 Top of sandstone ledge, 50 ft. high, bears NW. and SE.

73.95 Bottom of Lockhart Canyon and wash, 30 lks. wide, 3 ft.
deep, 500 ft below witness cor. to the $\frac{1}{4}$ sec. cor.,
drains NW. Road in wash, from Indian Creek to
Lockhart, bears NW. and SE. Ascend over general N. and
slope 65 ft. to

80.26 The cor. of secs. 22, 23, 26 and 27.

Land, rough broken benches and precipitous talus slopes.

Soil, shallow sand and sandstone rock; 4th rate.

No timber.

Undergrowth, shadescale and black brush.

N.0°01' W., bet. secs. 22 and 23.

Descend NW. slope over rough, broken bench land through
scattered short undergrowth.

10.70 Top of ledge and wall of canyon, 100 ft. high, bears E.

SUBDIVISION OF T.28 S., R.20 E.

Chains

and V.; descend abruptly.

11.50 Bottom of Lockhart Canyon and wash, 50 lks. wide, 3 ft.

deep, drains W. about 5 chs., thence NE.; ascend.
Road in wash, bears NW. and SE.

12.40 Spur, projects W.; descend.

19.20 Lockhart Canyon wash, drains NE.

24.20 Same Wash, drains NW.; ascend over rough broken ground.

37.65 Top of ledge and rim of Lockhart Canyon, 100 ft. high,
bears SE. and SW.; thence over very rough bench land.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a large mound of stone over a cross (X) cut in solid
rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$	
S22	S23

1927

Impracticable to build accessories to cor.

42.60 Line strikes a sandstone dome, to pass which I offset as
follows:

West, 1.30 chs., then on offset line,

N.0°01'W., 12.40 chs., then

East., 1.30 chs. to true line at

55.00 Continue over broken bench.

76.00 Top of ledge, 150 ft. high and rim of box canyon, bears
NE. and SW.; descend abruptly.

79.00 Bottom of canyon and wash, drains SW.; ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in
a large mound of stone over a cross (X) cut in surface
rock for cor. of secs. 14, 15, 22 and 23, with brass
cap marked

T28S	R20E
S15	S14

S22	S23
1927	

Impracticable to build accessories to cor.

Land, rough rocky benches broken by ledges and cut by
canyons; general W. exposure and drainage.

SUBDIVISION OF T.23 N. R.30 E.

Chains

Chain

Soil, shallow sand and sandstone rock; 4th. rate.

No timber. 08.11

Undergrowth, shade scale. 04.01

S.89°56'E., on a random line bet. secs. 14 and 23 04.01

7.35 Line ascends high sandstone rim over which I cannot

chain; to determine distance to top I triangulate as

follows:

Set flag "A" on line east.

and with the telescope

directed to "A" deflect

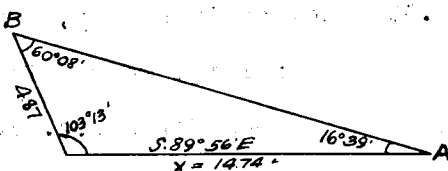
an angle of 103°13' to

the left and measure

base line 4.87 chs. distant to point "B". The angles

subtended at "A" and "B" determined by repetition are

16°39' and 60°08' respectively.



Distance by triangulation

= 14.74 chs.

22.09 Line east from this point crosses a box canyon across

which it is impracticable to chain; therefore, I

triangulate as follows:

Set point "A" on line to the

east and erect flag "B"

at this point. With the

transit over "A" and, the

telescope directed to "B"

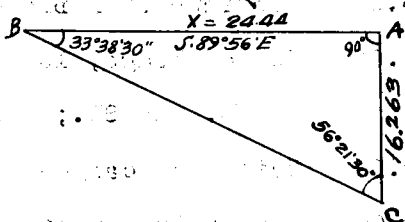
deflect and angle of 90°00'

to the left and measure base line 16.263 chs. to

point "C". The angles subtended at "C" and "B" deter-

mined by repetition are 56°21'30" and 33°38'30"

respectively.



Distance on line

= 22.09 chs.

Distance by triangulation

= 24.44 "

Distance by return measurement

46.53 "

Distance by return measurement

6.53 "

40.00 Set temp. & sec. corners. W. line, S. line

80.00 Intersect N. and S. line 7 lks. S. of the cor. of secs.

SUBDIVISION OF T. 28 S., R. 20 E.

Chains

13, 14, 23, and 24.

Thence

N. 89° 59' W., on true line bet. secs. 14 and 23.

Gradually descend over rough, broken bench land through short undergrowth.

7.00 Top of ledge and rim of canyon, 30 ft. high, bears NW. and SE.; descend.

9.00 Wash, 40 lks. wide, 4 ft. deep, in canyon, drains NW.; ascend.

18.80 Spur, projects NW.

19.90 Wash, 10 lks. wide, 4 ft. deep, drains N.; ascend.

22.00 Spur, projects N.; descend W. slope.

23.75 Thence along N. slope to sandstone rim.

33.50 Sandstone rim, 30 ft. high, bears N. and S.; descend.

35.70 Thence along N. slope.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

S14

$\frac{1}{4}$ ———
S23
1927

Impracticable to build accessories to cor.

41.00 Top of sandstone ledge rim 60 ft. high, bears N. and S. Thence by triangulation with approximate topography as follows:

51.00 Wash, in bottom of box canyon, 150 ft. deep, drains N.; ascend.

53.00 Top of sandstone ledge and W. rim of canyon, bears N. and S.; thence across solid sandstone spur projecting N.

57.91 Top of ledge rim, 100 ft. high, bears N. and SW.; thence by triangulation to

72.65 Top of ledge and rim of canyon, 35 ft. high, bears NE. and SW.; descend.

75.00 Wash, in bottom of canyon, drains S. 80° W.; thence along

SUBDIVISION OF T.28 S., R.20 E.

Chains

Chains

S. slope to

80.00

The cor. of secs. 14, 15, 22, and 23.

Land, rough rocky bench, broken by sandstone ledges and
cut by box canyons; general W. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th rate.

No timber.

Undergrowth, scattered shadscale and mountain rush.

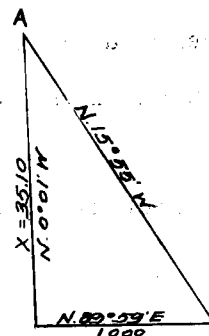
N. 0°01' W., bet. secs. 14 and 15.

Ascend over rough, broken bench land through scattered
short undergrowth.

7.61

The line north strikes vertical sandstone rims over
which I cannot chain; therefore triangulate as
follows:

Set flag "A" on line to the
north; then measure a
base line N.89°59'E.,
10.00 chs. distant. From
the east end of the base
flag "A" bears N.15°55'W.



All bearings taken by direct reading of the solar and
angles checked by deflection.

Distance on line	= 7.61 chs.
Distance by triangulation	35.10 "
	42.71 "
Distance by return measurement	2.36 "
	40.35 "

25.00

Approximate distance to vertical sandstone rim, 100 ft.
high, bears E. and W.; continue ascent.

40.00

Point for $\frac{1}{4}$ sec. cor. falls on face of sandstone ledge,
bearing E. and W. where cor. cannot be set.

40.35

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a large mound of stone over cross (X) cut in solid
rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass
cap marked

SURDIVISION OF T.28 S., R.20 E.

Chains

Imp practicable to build accessories to cor.
42.71 Point of triangulation on top of ridge, bears E. and W.;
thence over broken bench land.
75.00 Draw, drains NW.
80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in
a large mound of stone over a cross (X) cut in solid
rock for cor. of secs. 10, 11, 14, and 15, with brass
cap marked

T28S	R20E
S10	S11
S15	S14

1927

Imp practicable to build accessories to cor.
Land, rough, rocky bench land broken by sandstone ledges
and cut by box canyons; general S. exposure and drain-
age.
Soil, shallow sand and sandstone rock; 4th. rate.
No timber.
Undergrowth, scattered shadscale.

S.89° 59'E., on a random line bet. secs. 11 and 14.

The line east follows along a steep, rugged S. slope
along which it is impracticable to chain; therefore
I offset as follows:

South, 6.95 chs., then on offset line
S.89°59'E., 40.00 chs., then
North, 3.03 chs. to

40.00 Point 3.92 chs. south of the true position for the temp.
¼ sec. cor. Unable to reach true line on account of
ledges; therefore leave temp. ¼ sec. cor. at this
point.

Thence

South, 3.03 chs., then continue on offset
S.89°59'E., 5.02 chs., then, on account of high ledge
points projecting S. ahead on line, offset
South, 4.00 chs. or total offset of 10.95 chs., then
S.89°59'E., on offset line, 35.14 chs., then

SURVEY OF T.28 S., R.20 E.

Chains

advised

North, 3.84 chs. and intersect the witness cor. to the cor. of secs. 11, 12, 13, and 14 established 7.11 chs. S.0°01'E. of the true cor. point for cor. of secs. 11, 12, 13, and 14, which falls on inaccessible ledges. The bearing of the line bet. secs. 11 and 14 therefore is N.89°59'W., and the distance is 80.16 chs.

Thence from the witness cor. to the cor. of secs. 11, 12, 13, and 14.

South, 3.84 chs., then on offset line

N.89°59'W., 35.14 chs., over rough, rugged bench land; high impassable ledges immediately to the north.

North, 4.00 chs., then

N.89°59'W., 4.94 chs., or 40.08 chs. counted from the true point for cor. of secs. 11, 12, 13, and 14; then

North, 3.03 chs. to a point 3.92 chs. south of the true point for the $\frac{1}{4}$ sec. cor. at

40.08 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

WC

S11

 $\frac{1}{4}$

S14

1927

Impracticable to build accessories to cor.

Thence from witness cor. to the $\frac{1}{4}$ sec. cor.,

South, 3.03 chs., then on offset line

N.89°59'W., 80.16 chs. (counted from cor. of secs. 11, 12, 13 and 14), then

North, 6.95 chs. to

80.16 The cor. of secs. 10, 11, 14, and 15.

Land, rough, rocky bench, broken by high impassable sandstone ledges; general S. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

SUBDIVISION OF T.28 S., R.20 E.

Chains

Undergrowth, scattered shadscale.

N.0°01'W., betl. secs. 10 and 11.

Descend over broken bench land through scattered short undergrowth.

17.85 Draw, 125 ft. below sec. cor., drains NW.; ascend.

24.90 Low spur, 65 ft. above draw, projects W.; descend.

37.00 Top of a sandstone dome, 50 ft. long, 20 ft. wide, 20 ft. high, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
S10 | S11
1927

Impracticable to build accessories to cor.

43.80 Draw, drains W.; gradually ascend.

62.90 Low spur, projects W.; descend 65 ft. to

64.75 Draw, drains SW.; a small spring bears west, about 3 chs. distant.; ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 18 ins. in a mound of stone for cor. of secs. 2,3,10, and 11, with brass cap marked

T28S | R20E
S3 | S2
S10 | S11
1927

Deposit a sandstone, 8x6x4 ins., marked with a cross (X) on one face at base of monument.

Land, rough, broken bench; general W. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Undergrowth, shadscale.

SUBDIVISION OF T.28 S., R.20 E.

united

S.89°59'E., on a random line bet. sec. 2 and 11.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

40.16 Intersect the cor. of secs. 1, 2, 11 and 12.

Thence

N.89°59'W., on true line bet. secs. 2 and 11.

Descend SW. slope of mesa over rough, broken land through short undergrowth.

40.00 Base of descent, 250 ft. below sec. cor.; thence ascend and descend over broken bench land.

40.08 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ $\frac{S2}{S11}$
 1927

Impracticable to build accessories to cor.

40.00 Draw, drains S.

40.00 The cor. of secs. 2, 3, 10, and 11.

Land rough, broken bench land and steep rocky slopes of mesa; general S. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

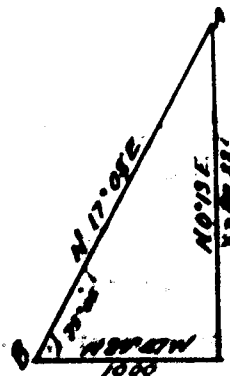
Undergrowth, very scattered shadscale.

N.0°13'E., on a random line bet. secs. 2 and 3.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

Line north ascends high ledges and breaks of mesa up which I cannot chain; to determine distance to top I triangulate as follows:

Set flag "A" on line to the north; then, measure base line N.89°47'W., 10.00 chs. distant to point "B". The line "BA" bears N.17°08'E. and the angle subtended at "B" determined by repetition is 73°05'



SUBDIVISION OF T. 25 S., R. 20 E.

Chains

- Distance by triangulation = 32.88 chs.
- 72.88 N. point of triangulation.
- 80.22 Intersect N. bdy. of Tp. 7 lks. E. of the cor. of secs. 2, 3, 34, and 35 heretofore described.
- Thence
- S. 0°10'W., on true line bet. secs. 2 and 3.
- Over rolling top of mesa known as Hatch Point, through dense juniper and pinon timber and short undergrowth.
- 7.34 Top of ledge 250 ft. high and rim of mesa, bears E. and W.; leave timber; thence over high ledges and breaks of mesa.
- 40.22 On S. slope, 1000 ft. below top of mesa, Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked
- S3 | S2
1927
- Impracticable to build accessories to cor.
- Thence over rolling and broken bench land facing S.
- 57.10 Draw, drains SW.
- 80.22 The cor. of secs. 2, 3, 10, and 11.
- Land, N. 7.34 chs. rolling top of mesa; next 32.88 chs. precipitous break of mesa, and remainder of mile broken bench land; general S. exposure and drainage. Soil, shallow sand and sandstone rock; 4th rate. Timber, dense juniper and pinon on N. 7.34 chs. Undergrowth, shadscale.

From the cor. of secs. 3, 4, 33, and 34 on the S. bdy. of the Tp., which is an iron post, 2 ins. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T. 29 S., R. 20 E., book "A" this Group.

N. 0°02'W., bet. secs. 33 and 34.

SUBDIVISION OF T. 28 S., R. 20 E.

Chains

entire

Gradually descend over broken bench land through short undergrowth. 28.57

21.15 Wash, 30 lks. wide, 20 ft. deep, drains E.; gradually ascend. 28.08

29.00 Low point, projects E.; gradually descend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

S33

S34

1927

Imp practicable to build accessories to cor.

44.50 Low ridge, bears NE., and SW.; gradually descend.

63.80 Top of ledge and rim of Horse Thief Canyon, bears NE. and SW.; descend 265 ft. to

77.00 Bottom of Horse Thief Canyon and wash, 20 lks. wide, 4 ft. deep, drains NE.; thence in canyon.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground over a cross (X) cut in solid rock and 18 ins. in a mound of stone for cor. of secs. 27, 28, 33 and 34, with brass cap marked

T28S

R20E

S28

S27

S33

S34

1927

Imp practicable to build accessories to cor.

Land, rolling and broken bench; general N. exposure and drainage.

Soil, gravelly, shallow sand and red sandstone rock; 4th rate.

No timber.

Undergrowth, shadscale, mountain rush and yellow top

S. 89° 59' E., on a random line bet. secs. 27 and 34.

The line east ascends rim of Horse Thief Canyon over which it is impracticable to chain; therefore, I

SUBDIVISION OF T.28 S., R.20 E.

Chains

triangulate as follows:

Set flag "A" on line to

the east, and flag "B"

N.89°59'W., 3.67 chs.

distant from the cor.

of secs. 27,28,33, and

34. Then, with the transit over "A" and with the

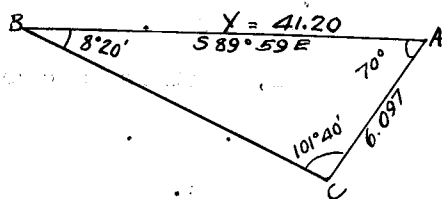
telescope directed to "B" deflect an angle of 70°00'

to the left and measure base line "AC" 6.097 chs.

distant. The angles subtended at "C" and "B"

determined by repetition are 101°40' and 8°20'

respectively.



Distance by triangulation

= 41.20 chs..

Subtract

3.67 "

37.53 "

Distance bet. secs. 27 and 34 to point "A" = 37.53 "

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line 2.1ks. S. of the cor. of secs.
26,27,34 and 35.

Thence

West, on true line bet. secs. 27 and 34.

Gradually ascend over rolling and broken bench land
through short undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone over a cross (X) cut in solid rock
for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ $\frac{S27}{S34}$
1927

Impracticable to build accessories to cor.

42.47 Low ridge, bears NW. and SE.; thence by triangulation.

The approximate topography to the west is:

Descend SW. slope.

51.00 Top of ledge 150 ft. high and rim of Horse Thief Canyon,
bears N.80°W. and SE.; descend.

76.00 Bottom of Horse Thief Canyon and wash, 20 lks. wide, 4
ft. deep, drains N.; ascend.

80.00 The cor. of secs. 27,28,33, and 34.

SUBDIVISION OF T.28 S., R.20 E.

Chains

Land, rough, broken bench; general N. exposure and drainage.

Soil, shallow sand and rocky of sandstone formation; 4th. rate.

No timber.

Undergrowth, black brush and mountain rush.

N.0°02'W., bet. secs. 27 and 28.

Over rough broken land in bottom of Horse Thief Canyon, through short undergrowth.

28.00 Wash, 20 lks. wide, 5 ft. deep, drains NW.; leave canyon; ascend abruptly over sandstone ledges 100 ft. to

37.53 Spur, projects NW. Set flag for future reference. Descend N. slope.

40.00 On N. slope of spur.

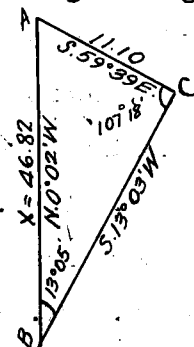
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S28 | S27
 1927

Impracticable to build accessories to cor.

47.90 Bottom of canyon and wash, 30 lks. wide, 4 ft. deep, 110 ft. below spur, drains NW.; the line north ascends high ledge rims of canyons over which it is impracticable to chain; I therefore return to my flag at 37.53 chs. and make the following triangulation:

Set flag "A" on line north and erect flag "B" at this point; then, from "A" measure base line "AC", S.59°39'E., 11.10 chs. distant. The line



"CB" bears S.13°03'W. and the angles subtended at

"C" and "B" determined by repetition are 107°18' and

Chains

13°05' respectively.

Distance on line = 37.53 chs.
 Distance by triangulation = 46.82 "
 Distance by return measurement = 84.35 "
 = 4.35 "
 80.00 "

The approximate topography from the 47.90 chs. point is:

49.00 Vertical sandstone ledge and W. rim of canyon, bears E.
 and W.

50.00 Rocky spur, projects W. about 10 chs. distant.

55.00 Bottom of canyon, drains W.

58.00 In crevice 2½ ft. deep, on gentle S. slope of ridge
 bearing E. and W.

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.
 in a mound of stone for cor. of secs. 21, 22, 27, and
 28, with brass cap marked

T25S	R20E
S21	S22
S26	S27
1927	

Deposit a sandstone, 9x6x6 ins., marked with a cross (X)
 on one face at base of monument.

Land, rough, rocky bench broken by sandstone ledges and
 cut by box canyons; general W. exposure and drainage.

Soil, shallow sand and rock of sandstone formation;
 4th. rate.

No timber.

Undergrowth, shadscale.

East, on a random line bet. secs. 22 and 27.

49.00 Set temp. ¼ sec. cor.

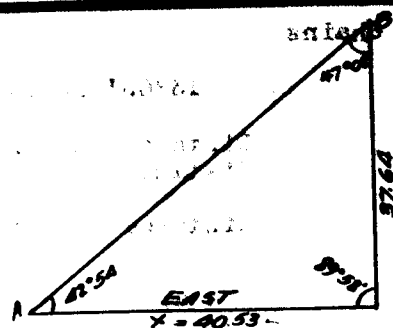
The line east crosses a box canyon and sandstone rims,
 over which it is impracticable to chain; I therefore
 make the following triangulation:

Return to a point on random line at 39.43 chs. from
 which station the cor. of secs. 22, 23, 26, and 27 is
 plainly visible and bears East. Erect flag "A" at

SUBDIVISION OF T.28 S., R.20 E.

Chains

this point. Then with the transit over the cor. of secs. 22, 23, 26, and 27 and with the telescope directed to flag "A" deflect an angle of $89^{\circ}58'$ to the right and



measure base line 37.64 chs. distant to point "B".

The angles subtended at points "A" and "B" determined by repetition are $42^{\circ}54'$ and $47^{\circ}08'$ respectively.

Distance by triangulation = 40.53 chs.

79.96 Intersect the cor. of secs. 22, 23, 26, and 27.

Thence

West, on true line bet. secs. 22 and 27.

Direct measurement. Over rough broken bench land through scattered short undergrowth.

23.50 Canyon, 100 ft. deep, drains N.; a small spring of good water, bears S. 1.50 chs. distant.

21.00 Base of sandstone ledge 200 ft. high, bears N. and S.

Thence by triangulation to	40.53 chs.
Distance by return measurement	<u>.55 "</u>
	39.98 "

31.98 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

	<u>S22</u>
$\frac{1}{4}$	S27
	1927

Impracticable to build accessories to cor.

Cor. stands at the base of a sandstone ledge, 30 ft. high, bears N. and S.

40.53 Point of triangulation on top of ledge, bears N. and S. Gradually ascend.

66.20 Low ridge, bears NW. and SE.; gradually descend.

79.96 The cor. of secs. 21, 22, 27 and 28.

Land, rough, rocky bench, broken by sandstone ledges and cut by box canyons; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Subdivision of T.28 S., R.20 E.

Chains

No timber.

Undergrowth, scattered black brush and mountain rush.

N.0°02'W., bet. secs. 21 and 22.

Over rough, rocky sandstone bench land through short undergrowth.

4.40 Ridge, 30 ft. above sec. cor., bears E. and W.; thence on near level line.

16.00 Begin descent over broken NW. slope.

38.65 Spur, projects NW.; descend N. slope.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

\uparrow
 S21 | S22
 1927

Impracticable to build accessories to cor.

41.00 Sandstone dome, 30 ft. high and 30 ft. in diameter on line.

51.50 Sandstone rim, 20 ft. high, bears E. and W.; thence across limestone bench.

79.00 Top of ledge, 100 ft. high, and S. rim of Lockhart Canyon, 165 ft. below $\frac{1}{4}$ sec. cor., bears E. and NW.; Descend abruptly over ledge.

80.00 On steep N. slope.

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for cor. of secs. 15, 16, 21, and 22, with brass cap marked

T28S | R20E
 S16 | S15
 S21 | S22
 1927

Impracticable to build accessories to cor.

Land, rough, rocky benches broken by sandstone ledges and

SUBDIVISION OF T.28 S., R.20 E.

21150

Chains

cut by box canyons; general N. exposure and NW. drainage.

Soil, shallow sand and sandstone and limestone rock; 4th. rate.

No timber.

Undergrowth, shadscale.

East, on a random line bet. secs. 15 and 22.

The line east crosses Lockhart Canyon rimmed with vertical walls of sandstone over which it is impracticable to chain; therefore, I triangulate as follows:

Designate cor. of secs. 15, 16,

21 and 22 point "A" and

set flag "B" S. 89° 45' E.

Base line "AC" bears

N. 0° 02' W., 25.12 chs.

(see line bet. secs. 15 and 16). The line "CB" bears S. 27° 49' 30" E. Angles "A", "B", and "C" by repetition are found to be 90° 17', 61° 55' 30", and 27° 47' 30" respectively.

Distance by triangulation

13.38 chs.

Offset from flag "B",

North, .06 chs. to true random line at

13.38

The line east from this point follows along north wall of Lockhart Canyon making chaining impracticable; therefore, I triangulate to the east as follows:

Set flag "A" ahead on line,

then measure base line N. 11°

21' E., 6.55 chs. to point

"B". The line "BA" bears

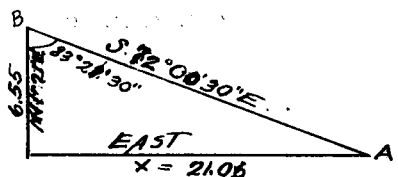
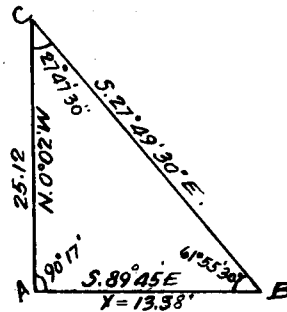
S. 72° 00' 30" E. and the angle at "B" determined by repetition is 88° 32' 21.030"

Distance by triangulation

= 21.06 chs.

34.44

East point of triangulation.



DIVISION OF T. 28 S., R. 20 E.

Chains

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.80 Intersect N. and S. line 5 lks. N. of the cor. of secs.
14, 15, 22, and 23.

Thence

N. 89° 58' W., on true line bet. secs. 15 and 22.

Over rough, rugged bench land through scattered under-
growth. Ascend abruptly 90 ft. to

1.00 Spur, projects S.; thence along rugged S. slope.

10.85 Spur, projects S.; continue along rugged S. slope.

22.65 Top of sandstone ledge and rim of Lockhart Canyon, 100
ft. high, bears NE. and SW.; thence over gray lime-
stone bench.

39.90 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a large mound of stone over a cross (X) cut in solid
rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$$\begin{array}{r} S15 \\ \frac{1}{4} \\ S22 \\ 1927 \end{array}$$

Impracticable to build accessories to cor.

45.50 Top of ledge 150 ft. high and rim of Lockhart Canyon,
bears NE. and SW.; descend abruptly.

53.50 Bottom of Lockhart Canyon and wash, drains NW.; road in
wash, bears NW. and SE.

59.00 Same wash, drains SW., and road, bears NE. and SW.;
ascend abruptly.

62.00 Top of sandstone ledge and rim of Lockhart Canyon, 150
ft. high, bears NE. and SW.; thence across sandstone
point projecting S.

67.50 Top of ledge 100 ft. high and rim of Lockhart Canyon,
bears NW. and SE.; descend abruptly.

72.50 Bottom of Lockhart Canyon and wash, drains NW.; road
in wash, bears NW. and SE.; ascend along steep N.
slope.

79.80 The cor. of secs. 15, 16, 21, and 22.

SUBDIVISION OF T.28 S., R.20 E.

chains

Chains

Land, rough, rocky benches broken by high impassable sandstone ledges and cut by deep box canyons; general S. exposure and W. drainage.

Soil, shallow sand and sandstone and limestone rock; 4th rate.

No timber

Undergrowth, shadscale.

N. $0^{\circ}02'$ W., bet. secs. 15 and 16.

Over rough, broken bench land through scattered undergrowth. Descend into Lockhart Canyon.

10.00 Bottom of Lockhart Canyon and wash, drains W.; road in wash, bears E. and W. The line ascends rim of canyon over which I cannot chain; therefore triangulate as follows:

Return to the cor. of secs. 15, 16, 21,

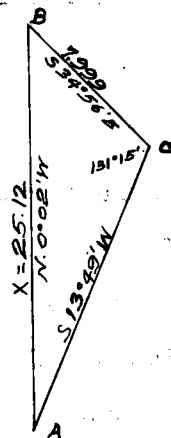
and 22 which I designate "A"

and set point "B" ahead on line; then, from "B" measure base line "BC", S. $34^{\circ}56'$ E.

7.999 chs. distant. The line

"CA" bears S. $13^{\circ}49'$ W. and

the angle subtended at "C" determined by repetition is $131^{\circ}15'$.



Distance by triangulation = 25.12 chs.

25.12 Top of ledge, 150 ft. high and N. rim of Lockhart Canyon, bears SW. and E.; thence over rolling limestone bench.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 5 ins. in the ground over a cross (X) cut in solid rock and 24 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

Chains

15. impracticable to build accessories to cor.

The line north passes over high sandstone ledges which makes chaining impracticable; I therefore return to my point at 25.12 chs. in order to obtain a suitable base line and make the following triangulation:

From the 25.12 chs. point set

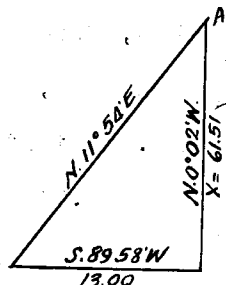
flag "A" ahead on line;

then measure a base line

S.89°58'W., 13.00 chs.

From west end of base

flag "A" bears N.11°54'E.



All bearings taken by direct reading of the solar and angles checked by deflection..

Distance on line	= 25.12 chs.
Distance by triangulation	= $\frac{61.51}{86.63}$ "
Distance by return measurement	= 6.63 "

60.00 The approximate distance to the bottom of a box canyon about 75 ft. deep, drains SW.

80.00 On S. slope of spur.

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for cor. of secs.9,10,15, and 16, with brass cap marked

T28S	R20E
S9	S10
S16	S15
1927	

Impracticable to build accessories to cor.

Land, rough, rocky bench land broken by ledges and cut by deep box canyons; general SW. exposure and drainage

Soil, shallow sand, sandstone and limestone rock; 4th.

rate.

No timber.

Undergrowth, scattered shadscale.

S.89°58'W.; on a random line bet. secs.10 and 15.

The line E. crosses a box canyon the east side of which

SUBDIVISION OF T.28 S., R.20 E.

Chains

is rimmed with a vertical wall of sandstone over which it is impracticable to chain; therefore triangulate as follows:

Set flag "A" on line S.89°58'E.

and erect "B" at this point;

then, from "A" measure base

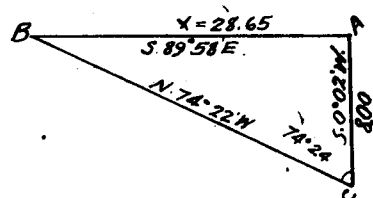
line "AC", S.0°02'W., 8.00

chs. distant. The line "CB"

bears N.74°22'W. and the angle subtended at "C"

determined by repetition is 74° 24'

Distance by triangulation = 28.65 chs.



40.00 Set Temp. $\frac{1}{4}$ sec. cor.

79.64 Intersect N. and S. line 17 lks. S. of the cor. of secs. 10, 11, 14, and 15.

Thence

S.89°55'W., on true line bet. secs. 10 and 15.

Descend over broken bench land through short undergrowth.

6.95 Draw, 50 ft. below sec. cor., drains NW.; gradually ascend.

14.70 Low ridge, bears N. and S.; descend 40 ft. to

27.00 Draw, drains N.; thence over broken ground.

39.82 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S10
S15
1927

Impracticable to build accessories to cor.

50.99 Top of ledge 100 ft. high and rim of canyon, bears N. and SW.; thence by triangulation.

63.00 Approximate distance to bottom of canyon draining S.

79.64 The cor. of secs. 9, 10, 15, and 16.

Land, rough, rocky bench, broken by sandstone rims and cut by box canyons; general SW. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

SUBDIVISION OF T.28 S., R.20 E.

Chains

Undergrowth, shade scale.

1.0000 to 1.0000 chain to ground level.

N.0°02'W., bet. secs. 9 and 10.

Ascend over rough, broken bench through scattered short undergrowth.

7.17 Spur, projects E.; the line north crosses a box canyon the vertical walls of which make chaining impracticable

I therefore triangulate as follows:

Set flag "A" on line N.0°02'W.,

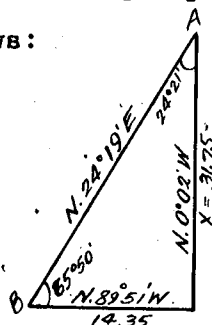
then measure base line

N.89°51'W., 14.35 chs. to

point "B". The line "BA"

bears N.24°19'E. and the

angles at "B" and "A" determined by repetition are 65°50' and 24°21'



Distance by triangulation = 31.75 chs.

15.00 Approx. dist. to observation station
38.92 Thence over rocky bench from N. point of triangulation.

40.00 On N. edge of small bench.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$

S9 | S10

1927

Impracticable to build accessories to cor.

The line north strikes a sandstone spur over which I cannot chain; therefore, I proceed as follows:

Return to a point at 38.88 chs. on line, thence with traverse around point of spur.

N.30°00'E., 7.70 chs., then

N.25°00'W., 9.10 chs., then

West, 01 lk. to true line at

53.80 From this point the top of spur, bears S. 5.70 chs.

distant; thence over broken bench.

74.70 Draw, drains SE.; ascend S. slope 80 ft. to

80.00 On S. slope at base of ledge, bearing E. and W.

Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins.

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221210

Chains

in the ground over a cross (X) cut in solid rock
and 20 ins. in a mound of stone for cor. of secs. 3,
4, 9, and 10, with brass cap marked

T288	R20E
S4	S3
S9	S10
1927	

Land, rough, rocky bench broken by sandstone ledges and
cut by box canyons; general S. exposure and drainage.
Soil, shallow sand and sandstone and limestone rock;
4th. rate.

No timber.

Undergrowth, shadscale.

N.89°55'E., on a random line bet. secs. 3 and 10.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.60 Intersect. N. and S. line 11 lks. N. of the cor. of secs.
2, 3, 10 and 11.

Thence

West, on true line bet. secs. 3 and 10.

Over broken bench land through short undergrowth.

6.00 Draw, drains SW.

30.00 Draw, drains SW.

39.80 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S3
$\frac{1}{4}$
S10
1927

Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

52.10 Begin to ascend.

77.00 Spur, 250 ft. above $\frac{1}{4}$ sec. cor., projects S.

79.60 The cor. of secs. 3, 4, 9, and 10.

Land, rough, rocky sandstone bench; general S. exposure
and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Undergrowth, shadscale.

... ..

SUBDIVISION OF T.38 S., R.20 E.

Chains

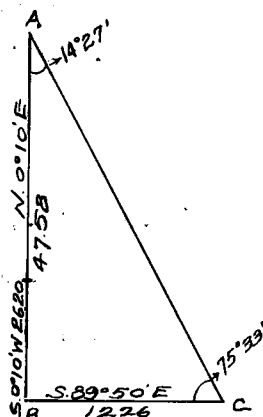
Undergrowth, scattered shadscale.

N.0°10'E., on a random line bet. secs. 3 and 4.

The line N. ascends high ledges and break of spur up which it is impracticable to chain; therefore, I triangulate as follows:

Set flag "A" on line to the N.,
and point "B", S.0°10'W., 26.

20 chs.; then, from "B" measure
base line S.89°50'E., 12.26 chs.
to "C". The angles subtended at
"A" and "C" determined by rep-
etition are 14°27' and 75°33'
respectively.

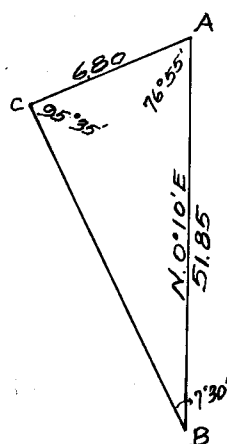


Distance by triangulation
Subtract

= 47.58 chs.
26.20 "
21.38 "

21.38 Point of triangulation. Line north from this point
passes over very rough and rugged country over which
it is impracticable to chain, I therefore triangulate
as follows:

Set point "A" on line to the N.,
and erect flag "B" at this point;
then with transit over "A" and
telescope directed to "B"
deflect an angle of 76°55'
to the right and measure base
line 6.80 chs. to "C". The angles
subtended at "B" and "C" determined
by repetition are 7°30' and 95°35'
respectively.



Distance on random line
Distance by triangulation
Distance by return measurement

= 21.38 chs.
= 51.85 "
73.23 "
33.23 "
40.00 "

40.00 Set temp. & sec. cor.

73.23 Point of triangulation.

SUBDIVISION OF T. 28 S., R. 20 E.

Chains

- 76.14 Fall 13 lks. E. of the witness cor. to the cor. of secs. 3, 4, 33, and 34 on the N. bdy. of the Tp. heretofore described and which is established 3.97 chs. S. 0° 05' W., of the true cor. point. Impossible to reach true cor. point on account of inaccessible ledges. The bearing of the line bet. secs. 3 and 4 therefore is S. 0° 04' W., and the distance is 80.11 chs. Thence From the witness cor. to the cor. of secs. 3, 4, 33, and 34, S. 0° 04' W., on true line bet. secs. 3 and 4, counting distances from true cor. point for the cor. of secs. 3, 4, 33 and 34. Over rough, broken bench land through short undergrowth.
- 11.00 Wash, 30 lks. wide, 4 ft. deep, in draw, drains SW.
- 15.40 Begin ascent over N. slope.
- 26.30 Begin ascent over rough, broken N. slope.
- 40.11 At base of ledge, 75 ft. high, bears E. and W. and on steep N. slope. Set an iron post, 3 ft. long, 1 in. in dia., 15 ins. in the ground over cross (X) cut in surface rock and 15 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked
- S4 S3

1927
- Impracticable to build accessories to cbr. Ascend abrupt N. slope, by triangulation.
- 58.73 Spur, projects SW.; thence over S. slope broken by ledges to
- 80.11 The cor. of secs. 3, 4, 9, and 10. Land, rough, rocky bench broken by sandstone ledges; general SW. exposure and drainage. Soil, shallow sand and sandstone rock; 4th rate. No timber.

SUBDIVISION OF T.28 S., R.20 E.

Chains

Undergrowth, shadscale.

From the cor. of secs. 4, 5, 32, and 33 on the S. bdy. of the Tp. which is an iron post, 2 ins. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T.29 S., R.20 E., book "A" this group.

N.0°03'W.; bet. secs. 32 and 33.

Descend over rough, broken bench land through short undergrowth.

10.75 Draw, 160 ft. below sec. cor., drains NW.; ascend 70 ft.

17.00 Top of ascent, 70 ft. above draw; thence along W. slope.

29.25 Descend into draw draining N.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in the ground over a cross (X) cut in solid rock and 26 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S32 | S33
 1927

Impracticable to build accessories to cor.

Cor. stands on E. side of bottom of wash in draw draining N.

43.00 Center of wash in draw, 20 lks. wide, 2 ft. deep, drains N.20°E.

55.25 Same wash, drains NW.; gradually ascend.

68.00 Spur, projects NW.; thence along near level line.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for cor. of secs. 28, 29, 32, and 33, with brass cap marked

T28S | R20E
 S29 | S28
 S32 | S33
 1927

Impracticable to build accessories to cor.

Land, rough, rocky bench; general NW. exposure and

CONTINUATION OF T.28-S., R.26-E.

entled

Chains

drainage.

Soil, shallow sand and rocky of sandstone formation;

4th. rate.

No timber.

Undergrowth, shadscale and yellow top.

S.89°59'E., on a random line bet. secs. 28 and 33.

Set temp. 4 sec. cor.

Intersect N. and S. line 9 lks. N. of the cor. of secs. 27, 28, 33, and 34.

Thence

N.79°55'W., on true line bet. secs. 28 and 33.

Ascend breaks of Horse Thief Canyon over broken sandstone ledges bearing about N. and S. and through scattered undergrowth.

Spur, 100 ft. above sec. cor., projects NW.; descend.

Draw, 90 ft. below spur, drains N.; ascend.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for 4 sec. cor., with brass cap marked

$$\begin{array}{r} \frac{S28}{4} \\ S33 \\ 1927 \end{array}$$

from which

A sandstone ledge, marked 4 X B0, bears N.17° 30'E., 136 lks. distant.

Other accessories at cor. impracticable.

Top of spur, 100 ft. above draw, projects N. about 3 chs. distant; descend.

Trail, bears N. and S.

Draw, 90 ft. below spur, drains N.; ascend 80 ft. to

Ridge, bears N. and S.; descend 160 ft. to

The cor. of secs. 28, 29, 33 and 33.

Land, rough, rocky bench broken by sandstone ledges and outcroppings; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Chains

Undergrowth, scattered shadscale and yellow top.

N.0°03'W., bet. secs. 28 and 29.

Over rough broken bench land through scattered undergrowth.

.30 Bottom of draw and wash, 10 lks. wide, 4 ft. deep, drains N.20°E.; gradually ascend.

14.10 Point of spur, projects E. about 30 lks. distant; gradually descend.

18.00 Same draw and wash, drains N.30°W.

40.00 On small sandy bench.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S29 | S28
 1927

Deposit a sandstone, 6x8x4 ins., marked with a cross (X) on one face at base of monument.

48.35 Same draw and wash, drains NE.; ascend.

58.50 Spur, 75 ft. above draw, projects E. about 5 chs. dist.

60.27 Top of ledge, 75 ft. high, bears NW. and E.; descend.

68.15 Base of descent, 100 ft. below spur; ascend 100 ft. to

74.00 Spur, projects E. about 2 chs. distant; descend 100 ft.

80.00 In draw draining NE.

Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock over a cross (X) cut in same, and 24 ins. in a large mound of stone for cor. of secs. 20, 21, 28, and 29, with brass cap marked

T28S | R20E
 S20 | S21
 S29 | S28

1927

Impracticable to build accessories to cor.

Land, rough, broken bench; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

SUBDIVISION OF T. 28 S., R. 20 E.

Chains

No timber.

Undergrowth, shadscale, black brush, yellow top, mountain rush, white sage and bunch grass.

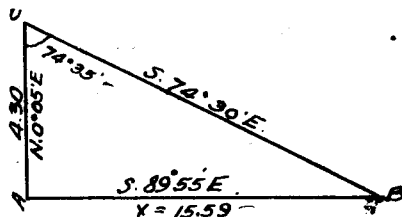
S. 89°55'E., on a random line bet. secs. 21 and 28.

40.00

Set temp. $\frac{1}{4}$ sec. cor.

The line east crosses a deep box canyon over which it is impracticable to chain; I therefore return to a point at 33.07 chs. on my random line which I designate "A" and make the following triangulation:

From "A" set flag "B" on random line to the east; then, measure base line "AC", N. 0°05'E., 4.30 chs dist. From "C" flag "A" bears S. 74°30'E.; the angle subtended at "C" determined by repetition is 74°35'.



Distance by triangulation is 15.59 chs.

40.66

Point B of triangulation

80.10

Intersect N. and S. line 11 lks. S. of the cor. of secs. 21, 22, 27, and 28.

Thence

West, on true line bet. secs. 21 and 28.

Descend W. slope of rough, rocky bench land broken by ledges through short undergrowth.

7.15

Top of sandstone ledge or rim approximately 100 ft. high, bears N. and SW.

81.44

To point on top of high, nearly vertical ledge about 200 ft. high and on E. rim of Horse Thief Canyon, bears NW. and S.

33.00

Bottom of Horse Thief Canyon, drains NW.

36.00

Top of ledge and west rim of Horse Thief Canyon, bears NW. and S.; thence over limestone bench.

40.05

Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in the ground on consolidated rock and 24 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

SUBDIVISION OF T.28 S., R.20 E.

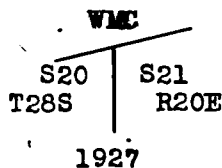
Chains	
	<div>S21</div> <div>S28</div> <div>1927</div>
	Deposit a sandstone, 8x7x6 ins., marked with a cross (X) on one face at base of monument.
	Descend. triangulation.
51.65	Low spur, projects N. about 10 chs. distant; descend 65 ft. to
61.20	Bottom of draw and wash, 30 lks. wide, 2 ft. deep, drains N.20°E.; thence on near level line to
80.10	The cor. of secs. 20, 21, 28, and 29.
	Land, rough rocky bench, broken by ledges and cut by box canyons; general N. exposure and drainage.
	Soil, shallow sand and sandstone and limestone rock; 4th. rate.
	No timber.
	Undergrowth, shadscale, black brush, mountain rush and yellow top.
	<hr/>
	N.0°03'W., bet. secs. 20 and 21.
	Ascend over rough, broken sandstone ledges through short undergrowth.
15.00	Top of sandstone ledge approximately 100 ft. high, bears NE. and SW.
21.35	Spur, 200 ft. above sec. cor., projects E. about 5 chs. distant; descend 150 ft. over N. slope broken by ledges to
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for 1/4 sec. cor., with brass cap marked
	<div>S20</div> <div>S21</div> <div>1927</div>
	Impracticable to build accessories to cor.
54.75	Ledge, 50 ft. high, bears NW. and SE.; thence over limestone bench.

SUBDIVISION OF T.28S., R.20 E.

amianO

Chains

- 56.34 Top of ledge and rim of Horse Thief Canyon, about 200 ft. high, bears NW. and SE. To determine distance across canyon, I triangulate as follows:
- Set flag "A" on line to the N.; then measure base line S.89°57'W., 10.598 chs. to point "B". The line "BA" bears N.37°10'E. All bearings taken by direct reading of the solar and angles checked by deflection.
- Distance by triangulation = 13.95 chs.
- 70.29 Point of triangulation on top of spur projecting W. about 5 chs. to the Colorado River and also on N. rim of Horse Thief Canyon which bears nearly W. and SE. The bottom of Horse Thief Canyon is approximately 4.00 chs. south.
- Descend NW. slope.
- 74.25 On NW. slope and on edge of ledge about 50 ft. high, bears NE. and SW.
- Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 18 ins. in a mound of stone for witness cor. to the meander cor. of secs. 20 and 21 on the left bank of the Colorado River, with brass cap marked.



from which

A sandstone ledge, marked WMC X B0, bears
S.81°10'E., 42 lks. distant.

- 74.80 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 20 and 21.
- 80.00 Point for the cor. of secs. 16, 17, 20, and 21 in Colorado River. No cor. set.

SUBDIVISION OF T.28 S., R.20 E.

Chains

Land, rough, rocky bench broken by ledges and cut by box canyons; general W. exposure and drainage.

Soil, shallow sand, sandstone and limestone rock; 4th rate.

No timber.

Undergrowth, shadscale, mountain rush and yellow top.

As the cor. of secs. 16, 17, 20, and 21 falls in the Colorado River, I established the line bet. secs. 16 and 21 as follows:

From the witness cor. to the meander cor. of secs. 20 and 21 on the left bank of the Colorado River, I run N. 38° E., 7.29 chs. distant to a point 4.49 chs. east of the theoretical position for the cor. of secs. 16, 17, 20, and 21; thence

West, 1.56 chs. to a point on random line bet. secs. 16 and 21 at

2.93 Set temp. meander cor. of secs. 16 and 21 on left bank of Colorado River.

Thence

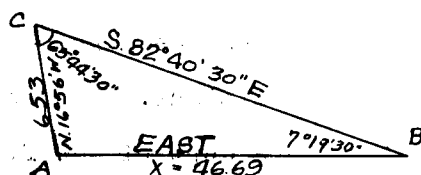
East, on random line bet. secs. 16 and 21 counting distances from true point for the cor. of secs. 16, 17, 20, and 21.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

Sandstone ledges on breaks of Lockhart Canyon make chaining to the east impracticable; therefore, I return to a point at 31.46 chs. on random line which I designate "A" and make the following triangulation:

From "A" set flag "B" to the east on random line; then measure a base line "AC", N. 16° 56' W., 6.53 chs. (unable to obtain

longer base). From "C" flag "B" bears S. 82° 40' 30" E. and the angles subtended at "C" and "A" determined



SUBDIVISION OF T.28 S., R.20 E.

Chains

201940

by repetition are $66^{\circ}44'30''$ and $7^{\circ}19'30''$ respectively.

Distance by triangulation = 46.69 chs.

78.15 Point "B" of triangulation.

78.80 Intersect N. and S. line 21 lks. N. of the cor. of secs. 15, 16, 21 and 22.

Thence

N. $89^{\circ}51'W.$, on true line bet. secs. 16 and 21.

Over rough, rugged bench land along breaks of S. side of Lockhart Canyon, through short undergrowth. Ascend abruptly 100 ft. to

1.65 Top of ledge and rim of Lockhart Canyon, bears NW. and SE.; thence along breaks of canyon.

23.00 E. rim of a sandstone spur, bears N. and S.; extends N. about 10 chs. distant.

25.70 W. rim of spur, bears N. and S.; descend.

36.10 Draw, drains NW.; wash in same, 30 lks. wide, 5 ft. deep. Ascend.

39.90 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$$\begin{array}{r} \text{S16} \\ \hline \frac{1}{4} \\ \text{S21} \\ 1927 \end{array}$$

Impracticable to build accessories to cor.

48.34 Top of spur, 200 ft. above draw, projects NW. about 10 chs. distant; gradually descend.

51.55 Bottom of draw and wash, 20 lks. wide, 15 ft. deep, drains NW.; gradually ascend.

52.45 From this point center line of derrick at the Hazelton Test Well No. 1 (oil), bears N. $14^{\circ}58'W.$, 12.83 chs. distant. This well has been temporarily abandoned at a dept of 500 ft.; S. end of boarding house at well bears N. $20^{\circ}20'W.$

55.74 The S. end of boarding house at Hazelton Test Well, bears N. $11^{\circ}W.$

60.20 Spur, projects N. about 1 ch. distant.

SUBDIVISION OF T.28 S., R.20 E.

Chains

72.50 Top of spur and ledge on E. side of Colorado River Canyon projects N. about 2 chs. distant; descend abruptly 185 ft. to

76.77 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 24 ins. in a mound of stone for witness cor. to the meander cor. of secs. 16 and 21 on the left bank of the Colorado River, with brass cap marked

W	T28SR20E
M	S16
C	S21

1927

from which

A sandstone ledge, marked WMC X B0, bears
East, 13 lks. distant.

Cor. stands on a small bench about 3 ft. above river.

76.87 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 16 and 21.

79.80 True point for the cor. of secs. 16, 17, 20 and 21 in Colorado River.

Land, broken benches and precipitous slopes of canyon; general N. exposure and W. drainage.

Soil, shallow sand, sandstone and limestone rock; 4th. rate.

No timber.

Undergrowth, shadscale, mountain rush, yellow top and black brush.

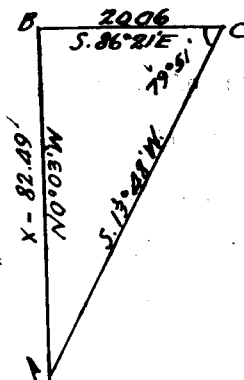
The cor. of secs. 16, 17, 20 and 21 falls in the Colorado River and the line bet. secs. 16 and 17 north from this cor. is in the river to a point beyond the $\frac{1}{4}$ sec. cor. bet. secs. 16 and 17, I therefore establish the line bet. secs. 16 and 17 as follows:

From a point 9.71 chs. S.0°03'E. of the true cor. point

SUBDIVISION OF T.28 S., R.20 E.

Chains

for cor. of secs. 16,17,
20 and 21, which I
designate "A", set flag
"B" on line N.0°03'W.;
then from "B" measure a
base line S.86°21'E., 20.06
chs. distant to point "C".

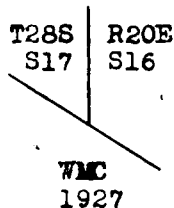


The line "CA" bears S.13°48'W. and the angle subtended
at "C" determined by repetition is 79°51'

Distance by triangulation	= 82.49 chs.
Subtract	<u>9.72</u>
Distance on line bet.secs. 16 and 17	= 72.78 "
Distance by return measurement	= <u>25.15</u> "
	47.63 "

- 47.63 Intersect mean high water mark on the Left Bank of the
Colorado River and true point for the meander cor.
of secs. 16 and 17. This point falls in the mouth of
a wash from box canyon to the NE.
The point for the $\frac{1}{4}$ sec. cor. bet. secs. 16 and 17;
7.63 chs. S.0°03'E. from this point falls in the
Colorado River.

- 48.89 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in
the ground for witness cor. to the meander cor. of
secs. 16 and 17, with brass cap marked



Raise a mound of stone, 3 ft.base, 2 ft.high, N.of cor.
Cor. stands in edge of river bottom in dense willow and
iron brush.

Ascend abruptly from river over sandstone ledges.

- 53.55 Top of ledge and rim of Colorado River,Canyon, bears
N.70°W. and S.30°E.; thence over broken limestone
bench.

- 72.70 Point of triangulation; continue N.0°03'W.en sec. line.

- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in

SUBDIVISION OF T.23 S., R.20 E.

Chains

the ground on solid rock and 20 ins. in a mound of stone for cor. of secs. 8, 9, 16, and 17, with brass cap marked

T28S	R20E
S8	S9
S17	S16
1927	

Deposit a sandstone, 12x10x7 ins., marked with a cross (X) on one face at base of monument.

Land, river bottom and rough, rocky limestone bench; general W. exposure and S. drainage.

Soil, shallow sand, limestone and sandstone rock; 4th. rate.

No timber.

Undergrowth, shadscale and yellow top with dense willow and iron brush along river

S.89°51'E., on a random line bet. secs. 9 and 16.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect the cor. of secs. 9, 10, 15 and 16.

Thence

N.89°51'W., on true line bet. secs. 9 and 16.

Gradually ascend SE. slope over rough, broken bench land through short undergrowth.

19.35 Spur, projects SW.; thence over rolling bench.

31.15 Begin descent of 75 ft. over broken W. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$	S9
	S16
	1927

Impracticable to build accessories to cor.

Continue descent over W. slope broken by sandstone ledges.

62.90 Base of ledges, 270 ft. below $\frac{1}{4}$ sec. cor., bears N. and S.; thence over limestone bench.

Chains

60.00 The cor. of secs. 8, 9, 16, and 17: mostly soil
land, rolling and broken bench; general exposure
and drainage.

Soil, shallow sand, sandstone and limestone rock; 4th.
rate.

No timber.

Undergrowth, shadescale and yellow top.

N. 0° 03' W., bet. secs. 8 and 9.

Over rough rocky bench land broken by sandstone ledges
and pinnacles and cut by box canyons, through scatter-
ed short undergrowth.

.50 South rim of box canyon about 5 chs. wide and 75 ft.
deep, drains W., across which I can not chain; I
therefore return to the cor. of secs. 8, 9, 16, and 17
and triangulate as follows:

Set flag "A" on line to the
north, then, measure base
line S. 62° 30' W., 8.00 chs.

From W. end of base flag
"A" bears N. 11° 25' E. All

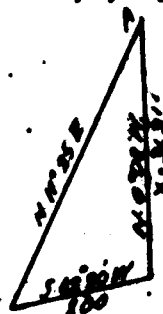
bearings taken by direct reading of the solar and
angles checked by deflection.

Distance by triangulation = 31.31 chs.

36.00 Spur, projects NW.; descend NE. slope.

37.00 Wash, in draw, 20 lks. wide, 3 ft. deep, drains NW.;
ascend SW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
the ground over a cross (X) cut in solid rock and 30
ins. in a large mound of stone for sec. cor., with
brass cap marked



20 | 20

1907

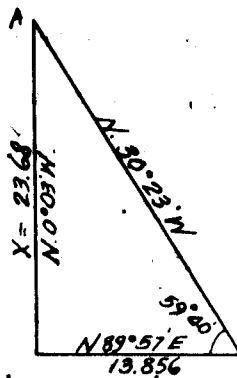
Impracticable to build accessories to cor.

Chains

45.87 Spur, 60 ft. above $\frac{1}{2}$ sec. cor., projects NW.; the line

north strikes vertical sandstone ledges and also crosses a box canyon over which it is impracticable to chain; I therefore triangulate as follows:

Set flag "A" on line to the north, then, measure base line N.89°57'E. 13.856 chs. From E. end of base flag "A" bears N.30°23'W.; the angle subtended at E. end of



base is 59°40'. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 23.68 chs.

60.00 Approximate distance to bottom of box canyon, 100 ft. deep, 3 chs. wide, drains NW.

69.55 Point of triangulation on spur, projects N.80°W.; descend over gentle N. slope.

76.00 Bottom of draw, 20 lks. wide, 2 ft. deep, drains SW.; gradually ascend gentle S. slope.

80.00 On small sandstone bench.

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for cor. of secs. 4,5,8, and 9, with brass cap marked

T28S	R20E
S5	S4
S8	S9
1927	

Impracticable to build accessories to cor.

Land, rough, rocky bench, broken by ledges and cut by box canyons; general W. exposure and drainage.

Soil, shallow sand, sandstone and limestone rock; 4th. rate.

No timber.

SUBDIVISION OF T.26 S., R.20 E.

Chains

Undergrowth, shadescale and yellow top.

From the cor. of secs. 4,5,8, and 9, a flag set on a spur west of the cor. of secs. 3,4,9, and 10, bears East,

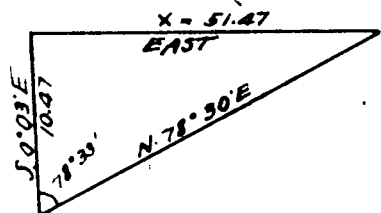
I run for said flag,

East, on a random line bet. secs. 4 and 9.

Set temp. 4 sec. cor.; the 40.00 chs. point falls on ledge.

The line east passes over high ledges over which it is impracticable to chain, I therefore return to the cor. of secs. 4,5,8, and 9 and make the following triangulation:

From the above sec. cor., flag on random line bears east. I now measure base line S. 0° 03' E., 10.47 chs. dist. from which point flag on random line bears N. 78° 30'

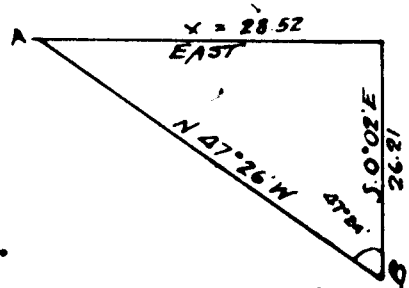


E. The angle subtended at the S. end of the base is 78° 33'. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation. = 51.47 chs.

51.47 The line east from this point is broken by ledges over which chaining is impracticable, I therefore triangulate as follows:

The cor. of secs. 3,4,9, and 10 is visible and bears East. Erect flag "A" at this point; then from cor.



secs. 3,4,9, and 10 measure base line S. 0° 02' E., 26.21 chs. to point "B". The line "BA" bears N. 47° 26' W. and the angle subtended at "B" determined by deflection is 47° 24'.

Distance by triangulation = 28.52 chs.

79.99 Intersect the cor. of secs. 3,4,9, and 10.

95
SUBDIVISION OF T.28 S., R.20 E.

Chains

Thence

West, on true line bet. secs. 4 and 9.

Over rough bench land broken by ledges; ascend 500 ft. to

28.52 Top of rocky spur, projects SW.; continue over ledges.

39.99 $\frac{1}{2}$ Point for the $\frac{1}{4}$ sec. cor. falls on sandstone ledge where
cor. cannot be set.

41.99 On top of small ledge, 900 ft. below top of spur,
Set an iron post, 3 ft. long, 1 in. in dia., 15 ins. in
the ground over a cross (X) cut in solid rock and
15 ins. in a mound of stone for witness cor. to the
 $\frac{1}{4}$ sec. cor., with brass cap marked

S4
+ ——— WC
S9
1927

Impracticable to build accessories to cor.

Continue over ledges.

44.70 Base of ledges, bears NW. and S.; thence over rolling
bench.

57.20 Begin descent from bench over sandstone ledges, bears
NW. and S.

63.00 Base of ledges, bears NW. and S.; gradually descend,

78.00 Draw, 200 ft. below witness cor. to the $\frac{1}{4}$ sec. cor.,
drains SW.

79.99 The cor. of secs. 4, 5, 8, and 9.

Land, rough, rocky bench, broken by ledges; general S.
exposure and SW. drainage.

Soil, shallow sand and sandstone rock; 4th rate.

No timber.

Undergrowth, shadscale, yellow top and bunch grass.

N. 0°04'E., on a random line bet. secs. 4 and 5.

27.51 Set flag for future reference.

35.26 Set temp. $\frac{1}{4}$ sec. cor.; true point for temp. $\frac{1}{4}$ sec. cor.

SUBDIVISION OF T.28 S., R.20 E.

Chains

at 40.00 chs. falls on inaccessible ground.

35.35 Box canyon ahead across which I cannot chain; return to my point at 27.51 chs. and triangulate as follows:

From the 27.51 chs. point

set flag "A" on random

line to the north, then

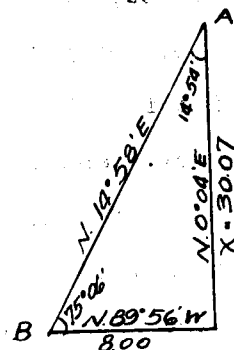
measure base line N.89°

56'W., 8.00 chs. to point

"B". The line "BA" bears

N.14°58'E. and the angles

subtended at "A" and "B" determined by repetition are 14°54' and 75°06' respectively.



Distance by triangulation = 30.07 chs.

57.58 Point A of triangulation.

79.93 Intersect N. bdy. of the Tp. 17 lks. E. of the cor. of secs. 4,5,32, and 33 heretofore described.

Thence

S.0°03'E., on true line bet. secs. 4 and 5.

Descend over rough, rocky bench land broken by ledges through short undergrowth.

12.00 Draw, drains W.; ascend.

22.35 Spur, projects NW.

25.00 Approximate distance to N. rim of box canyon and ledge 100 ft. high, bears NW. and SE.

35.00 Bottom of canyon, drains S.70°W.

39.93 Point for $\frac{1}{4}$ sec. cor. on inaccessible ground in break of canyon.

44.58 Top of ledge 100 ft. high and S. rim of box canyon, bears NW. and SE.; gradually ascend.

44.67 In small draw or swale, drains W.,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

SUBDIVISION OF T.28 S., R.20 E.

Chains	<p>Impracticable to build accessories to cor.</p>
66.75	<p>Spur, projects SW.; descend abruptly 120 ft. to</p>
79.93	<p>The cor. of secs. 4,5,8, and 9.</p> <p>Land, rough, rocky bench broken by sandstone ledges and cut by box canyons; general W. exposure and drainage. Soil, shallow sand and sandstone rock; 4th. rate. No timber.</p> <p>Undergrowth, shadscale, mountain rush, yellow top and bunch grass.</p>
	<p>From the cor. of secs. 5,6,31, and 32 on the S. bdy. of the Tp. which is an iron post, 2 ins. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T.29 S., R.20 E., book "A" this group.</p> <p>N.0°03'W., bet. secs. 31 and 32.</p> <p>Ascend over rough, broken bench land through short undergrowth.</p>
4.00	<p>Spur, 115 ft. above sec. cor., projects NW.; gradually descend.</p>
12.20	<p>Begin descent over N. slope into draw.</p>
26.40	<p>Bottom of draw and wash, 30 lks. wide, 3 ft. deep, 210 ft. below spur, drains NW.; ascend S. slope 25 ft. to</p>
40.00	<p>At base of small, brown sandstone ledges, bears E. and W. Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked</p>
	<p style="text-align: center;"> $\frac{1}{4}$ S31 | S32 1927 </p>
	<p>Impracticable to build accessories to cor.</p> <p>Ascend 50 ft. to</p>
47.60	<p>Spur, also rim of canyon about 50 ft. high, bears NW. and SE.; descend.</p>
54.00	<p>Wash, 30 lks. wide, 3 ft. deep, in can yon 130 ft. deep,</p>

SUBDIVISION OF T.24 N., R.20 E.

enlarged

Chains

drains NW.; ascend.

- 56.95 Top of butte about 150 ft. high, on spur 200 ft. above canyon, projects NW.; descend 275 ft. to
- 75.00 Draw, drains W.; ascend 100 ft. to
- 80.00 Near top of spur.
- Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for cor. of secs. 29, 30, 31, and 32, with brass cap marked

T28S	R20E
S30	S29
S31	S32
1927	

Impracticable to build accessories to cor.

Land, rough, rocky bench broken by ledges and cut by canyons; general W. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber,

Undergrowth, shadsdale, yellow top and bunch grass.

S.89°59'E., on a random line bet. secs. 29 and 32.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.96 Intersect N. and S. line 14 lks. S. of the cor. of secs. 28, 29, 32, and 33.

Thence

S.89°55'W., on true line bet. secs. 29 and 32.

Over rough broken bench land through short undergrowth.

- .60 Wash, 20 lks. wide, 2 ft. deep, in draw, drains N.20°E.; ascend over sandstone ledges.

- 11.35 Spur and top of ledges, 150 ft. above draw, projects N.20°E.; thence over broken ground.

- 32.15 Wash, 30 lks. wide, 2 ft. deep, in draw 100 ft. deep, drains N.10°W.; ascend 65 ft. to

- 39.35 Spur, projects N. about 1 ch. distant.; thence along a general W. slope gradually descending.

- 39.98 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid

SUBDIVISION OF T.28 S., R.20 E.

Chains

rock for $\frac{1}{4}$ sec. cor., with brass cap marked

S29

S32

1927

Impracticable to build accessories to cor.

79.96

The cor. of secs. 29,30,31, and 32, 200 ft. below $\frac{1}{4}$ sec. cor.

Land, rough, rocky bench land; general NW. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

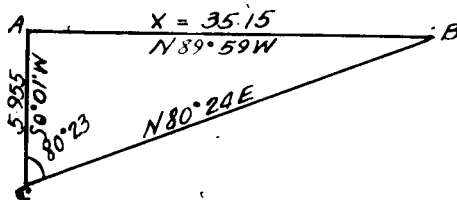
Undergrowth, shadscale, yellow top and bunch grass.

The cor. of secs. 25,30,31 and 36 on the W. bdy. of the Tp. falls in the Colorado River, therefore, I run from the cor. of secs. 29,30,31 and 32.

N.89°59'W., on true line bet. secs. 30 and 31.

The line west passes over precipitous slopes broken by sandstone ledges which makes chaining impracticable; therefore triangulate as follows:

Set point "A" on line to the West, and erect flag "B" at this point; then from "A" measure base line "AC", S.0°01'W., 5.955 chs. The line "CB"



bears N.80°24'E. and the angle subtended at "C" is 80°23'. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 35.15 chs.

8.00

Approximate distance to bottom of draw, drains NW.

35.15

Point of triangulation on spur, projects NW.; thence over rough, broken ground.

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

SUBDIVISION OF 128 S., R. 20 E.

Chains

S30

S31

1927

Impracticable to build accessories to cor.

60.40

Box canyon, 1 ch. wide, 60 ft. deep, drains NW.

69.06

Top of ledge and rim of Colorado River Canyon, bears N. and S.; to determine distance ahead on line I triangulate as follows:

Set flag "A" on line to west

on sand bar in the Colorado

River and erect flag "B"

at this point; then, from

"A" measure base line

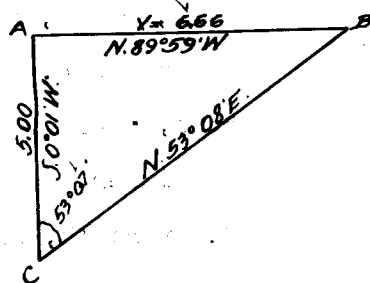
S.0°01'W., 5.00 chs. to

point "C". The line "CB" bears N.53°08'E. and the

angle subtended at "C" is 53°07'. All bearings

taken by direct reading of the solar and angles

checked by deflection.



Distance on line

= 69.06 chs.

Distance by triangulation

= 6.66 "

75.72 "

Distance by return measurement

= 2.98 "

72.74 "

72.74

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 30 and 31 on the left bank of the Colorado River, with brass cap marked

W	T286R20E
M	S30
C	S31
	1927

Deposit a sandstone, 8x6x3 ins. marked with a cross (X) on one face at base of monument.

73.31

Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 30 and 31.

Remainder of this mile falls in the Colorado River.

Land, rough, rocky bench broken by ledges and cut by canyons; general W. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Chains

182. No timber, a "CA" only grass, shrubs, etc.
Undergrowth, shade, mountain rush and yellow top
on bench; willow and iron brush along river.

From the cor. of secs. 29, 30, 31 and 32.

N. 0° 03' W., bet. secs. 29 and 30.

Over rough, rocky bench land broken by ledges through
short undergrowth. Ascend 35 ft. to

1.90 Spur, projects W.; descend 160 ft. to

9.50 Canyon and wash, 30 lks. wide, 2 ft. deep, drains W.;
ascend 80 ft. to

13.75 Spur, projects W. about 5 chs. distant.; descend.

21.00 Bottom of canyon and wash, 40 lks. wide, 2 ft. deep,
125 ft. below spur, drains S. 80° W.; ascend.

24.15 Spur, 100 ft. above canyon, projects SW. about 10 chs.
distant; descend.

26.00 Wash, 25 lks. wide, 30 ft. deep, drains SW.; thence
over broken ground.

40.00 In bottom of small draw draining NW.

Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in
the ground over a cross (X) cut in solid rock and
24 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor.,
with brass cap marked

1927
S30 | S29

Impracticable to build accessories to cor.

45.47 South rim of box canyon, approximately 125 ft. deep and
4 chs. wide draining S. 80° W. across which I cannot
chain; therefore, triangulate as follows:

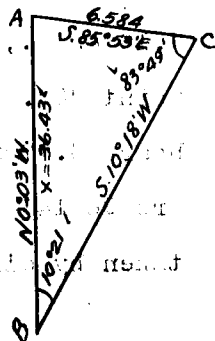
Set flag "A" on line to the

N. and erect flag "B"

S. 0° 03' E., 3.33 chs.

distant from the $\frac{1}{4}$ sec.

cor. bet. secs. 29 and 30.



SUBDIVISION OF T.25 S. R.20 E.

Chains

Then from "A" measure base line "AC" S.89°53'E., 6.584 chs. distant. The line "CB" bears S.10°15'W. and the angles subtended at "C" and "B" are 83°49' and 10°21'. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 36.43 chs.

73.10

N. point of triangulation; thence over broken ground.

80.00

Near top of low ridge.

Set an iron post, 3 ft. long; 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for cor. of secs. 19, 20, 29, and 30, with brass cap marked

T28S	R20E
S19	S20
S30	S29
1927	

Imp practicable to build accessories to cor.

Land, rough, rocky bench broken by ledges and cut by box canyons; general W. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

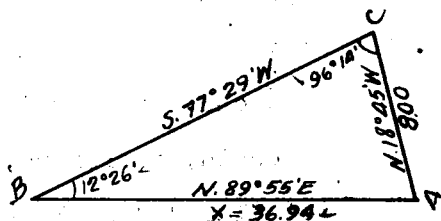
Undergrowth, shadscale, yellow top and mountain rush.

N.89°55'E., on a random line bet. secs. 20 and 29.

1.15

The line east crosses a box canyon over which it is impracticable to chain; therefore triangulate as follows:

Set point "A" on line to the east and erect flag "B" at this point; then, from "A" measure base line N.18°45'W., 8.00 chs. to point "C". The Line "CB"



bears S.77°29'W. The angles subtended at "C" and "B" are 96°14' and 12°26' respectively. All bearings taken by direct reading of the solar and angles checked

SUBDIVISION OF T.28 S., R.20 E.

Chains

by deflection.

Distance by triangulation = 36.94 chs.

38.09 To point of triangulation.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

The line east continues over ledges making chaining impracticable; thence by triangulation as follows:

Return to my point at 38.09 chs. and set flag "A" on

line to the east; measure

base line N.18°45'W., 8.00

chs. to point "B". The line

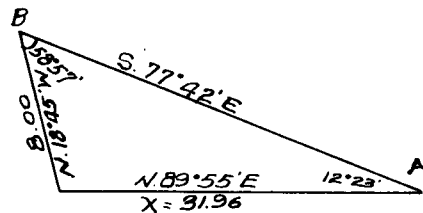
"BA" bears S.77°42'E. and

the angles subtended at "A"

and "B" are 12°23' and 58°57' respectively. All

bearings taken by direct reading of the solar and

angles checked by deflection.



Distance by triangulation. = 31.96 chs.

70.05 East point of triangulation.

79.94 Intersect N. and S. line 17 lks. N. of the cor. of secs, 20, 21, 28 and 29.

Thence

N.89°58'W., on true line bet. secs. 20 and 29.

Ascend rocky E. slope over rough broken bench land through short undergrowth.

9.89 Spur, 160 ft. above sec. cor., projects N.; thence over rugged NW. slope.

30.00 Approximate distance to bottom of draw, drains N.; ascend rugged E. slope.

39.97 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 24 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

S20

$\frac{1}{4}$

S29

1927

Deposit a sandstone, 8x6x6 ins. marked with a cross (X) on one face at base of monument.

SUBDIVISION OF T. 24 S., R. 20 E.

Chains

arised

41.85 Spur, projects N.

64.45 Approximate bottom of box canyon, 200 ft. deep, 5 chs. wide, drains NW.

79.94 The cor. of secs. 19, 20, 29 and 30.

Land, rough, rocky bench broken by sandstone ledges and cut by box canyons; general NW. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th rate.

No timber.

Undergrowth, shadscale, mountain rush and yellow top.

N. 89°59'W., on a random line bet. secs. 19 and 30.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

67.04 Mean high water mark on left bank Colorado River. Set temp. meander cor.

To determine distance across river triangulate as follows:

Set flag "A" on random

line near right bank

river and erect flag

"B" at this point; then

from "A" measure base

line "AC" S. 35°48'E. on

sandbar in river 13.00

chs. to point "C". The

line "CB" bears N. 20°51'E. and the angles subtended at "B" and "C" are 69°10' and 56°39' respectively.

All bearings taken by direct reading of the solar and angles checked by deflection.

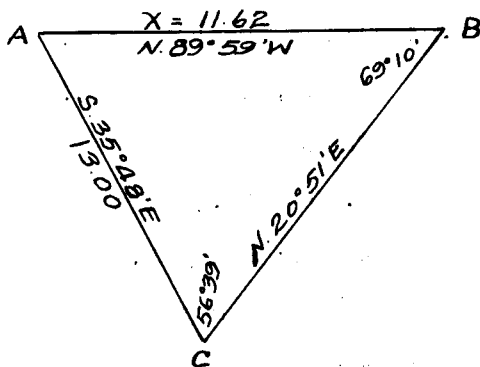
Distance by triangulation

= 11.62 chs

78.66 Point of triangulation near right bank of river.

78.79 Mean high water mark right bank Colorado River. Set temp. meander cor.

79.98 Intersect the cor. of secs. 19, 24, 25 and 30 on the W. bdy. of the Tp. heretofore described.



Chains									
	Thence								
	S.89°59'E., on true line bet. secs. 19 and 30.								
	Over river bottom through dense undergrowth.								
1.02	Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 19 and 30 on the right bank of the Colorado River, with brass cap marked								
	<table> <tr> <td>T28SR20E</td><td>W</td></tr> <tr> <td>S19</td><td>M</td></tr> <tr> <td>S30</td><td>C</td></tr> <tr> <td>1927</td><td></td></tr> </table>	T28SR20E	W	S19	M	S30	C	1927	
T28SR20E	W								
S19	M								
S30	C								
1927									
	Deposit a limestone, 5x4x2 ins. marked with a cross (X) on one face at base of monument.								
1.19	Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 19 and 13.								
1:32	Point of triangulation across Colorado River.								
12.94	Point of triangulation on mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 19 and 30.								
13.06	Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 19 and 30 on the left bank of the Colorado River, with brass cap marked								
	<table> <tr> <td></td><td>T28SR20E</td></tr> <tr> <td>W</td><td>S19</td></tr> <tr> <td>M</td><td>S30</td></tr> <tr> <td>C</td><td>1927</td></tr> </table>		T28SR20E	W	S19	M	S30	C	1927
	T28SR20E								
W	S19								
M	S30								
C	1927								
	Deposit a limestone, 10x8x4 ins. marked with a cross (X) on one face at base of monument.								
	Ascend from river over sandstone ledges, bears N. and S.								
23.85	Top of ledge and rim of canyon, bears N.80°E. and S.80° W.; ascend over rough broken bench land through short undergrowth.								
32.40	Spur, 130 ft. above rim of canyon, projects NW. about 10 chs. distant; gradually descend.								
39.98	In small box canyon, drains NW.								
	Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in								

SUBDIVISION OF T.28 S., R.20 E.

Chains

a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ $\frac{S19}{S30}$
1927

Impracticable to build accessories to cor.

40.80 Top of ledge, about 60 ft. high and E. rim of canyon, bears NW. and SE.; ascend over sandstone ledges 120 ft. to

50.10 Ridge, bears N. and SW.; descend.

57.00 Draw, drains S.; ascend.

60.25 Ridge, bears NW. and SE.; descend 50 ft. to

79.98 The cor. of secs. 19, 20, 29, and 30.

Land, rough, rocky bench land broken by ledges and cut by box canyons; general W. exposure and S. drainage. Soil, shallow sand, sandstone and limestone rock; 4th. rate.

No timber.

Undergrowth, shadscale, yellow top and mountain rush on bench; dense willow and iron brush along river.

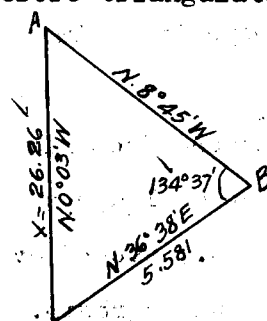
N.0°03'W., bet. secs. 19 and 20.

Over rough bench land broken by small sandstone ledges through short undergrowth.

11.25 Head of box canyon, drains NE.; impracticable to chain N. on account of ledges; therefore triangulate as follows:

Set flag "A" on line north, then measure base line N.36°38'E., 5.581 chs. to point "B". The line "BA" bears N.8°45'W. and

the angle subtended at "B" = 134°37'. All bearings



SURDIVISION OF T.28 S., R.20 E.

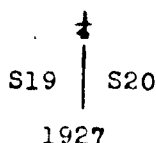
Chains

taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 26.26 chs.

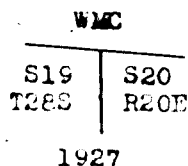
37.51 Top of limestone ledge and rim of Colorado River Canyon, bears W. and NE. Point of triangulation. Descend.

40.00 In bottom of Colorado River Canyon, near base of ledge. Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked



Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

44.98 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 19 and 20 on the left bank of the Colorado River, with brass cap marked

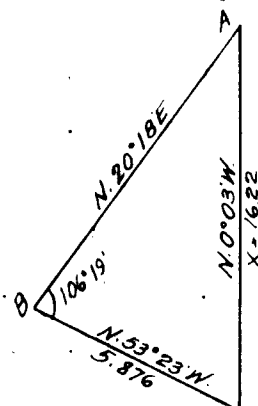


45.26 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 19 and 20.

To determine distance across river I triangulate as follows:

Set flag "A" on line near right bank of river; then measure base line N. $53^{\circ} 23' 11''$ W., 5.876 chs. to point "B". The line "BA" bears N. $20^{\circ} 18' 18''$ E. and the angle subtended

at "B" is $106^{\circ} 19' 11''$. All bearings taken by direct reading of the solar and angles checked by deflection.



SUBDIVISION OF T.28 S., R.20 E.

Chains

Distance on line = 45.26 chs.
 Distance by triangulation = 45.22 "
 Distance by return measurement = 61.48 "
 = 61.08 "
 = 61.40 "

61.40 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 19 and 20.

61.48 Point of triangulation; thence over river bottom.

62.30 Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in the ground for witness cor. to the meander cor. of secs. 19 and 20 on the right bank of the Colorado River, with brass cap marked

T28S	R20E
S19	S20

WMC
1927

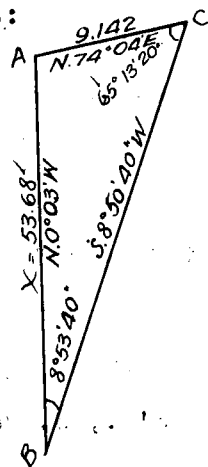
from which

Face of red sandstone ledge, marked BO X, bears North, 97 lks. distant.

Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

63.25 Leave river bottom, bears E. and W.; precipitous ascent over sandstone ledge rims impracticable to chain; I therefore triangulate as follows:

From point at 11.25 chs. on line bet. secs. 19 and 20, set point "A" on line to the north; also erect flag at the 11.25 chs. point which I designate "B". Then, from "A" measure base line N. 74° 04' E., 9.142 chs. to point "C". The line "CB" bears S. 8° 50' 40" W. and the angles subtended at "B" and "C" are 8° 53' 40" and 65° 13' 20" respectively. All bearings taken by direct reading of the solar and angles check by deflection.



Distance by triangulation = 53.68 chs.

64.93 Point of triangulation on top of sandstone ledge and N.

SUBDIVISION OF T28S, R.20 E.

Chains

Rimrim of the Colorado River Canyon, 200 ft. above river, bears E. and W.; ascend over gentle S. slope of bench.

74.80 Spur, projects SW.; descend steep N. slope 160 ft. to

80.00 In bottom of box canyon, drains SW.

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for cor. of secs. 17,18,19, and 20, with brass cap marked

T28S	R20E
S18	S17
S19	S20
1927	

Impracticable to build accessories to cor.

Land, rough, rocky benches broken by ledges and cut by canyons; general N. and S. exposure and drainage to the Colorado River which flows SW.

Soil, shallow sand, sandstone and limestone rock; 4th. rate. In river bottom soil is alluvial and rich loam; 1st. rate.

Timber, boxelder and a few cottonwood along banks of Colorado River.

Undergrowth, shadscale and yellow top on benches; willow and iron brush on river bottom.

S.89°58'E., on a random line bet. secs. 17 and 20.

High ledges make chaining on line to the east impracticable; I therefore offset as follows:

South, 4.32 chs., then on offset line

S.89°58'E., 20.56 chs., then

North, 4.32 chs. to true random line at

20.56 Thence S.89°58'E. on true random line.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

50.20 High ledge rim of Colorado River Canyon over which it is impracticable to chain; triangulate as follows:

SUBDIVISION OF T.28 S., R.20 E.

autm10

Chains

Set point "A" on random

line on right bank

Colorado River; then

measure base line

N.0°02'E., 5.05 chs.

distant. From N.

end of base flag

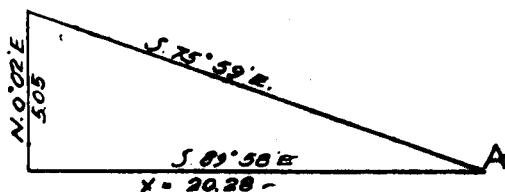
"A" bears S.75°59'E.

All bearings taken

by direct reading

of the solar and

angles checked by deflection.



Distance by triangulation = 20.28 chs.

70.48 Mean high water mark right bank of Colorado River. Set
temp. meander cor.

74.18 Sandbar in river. In order to determine the distance
to and the falling at the theoretical position of the
cor. of secs. 16,17,20, and 21 which falls in the
Colorado River, I proceed as follows:

Set point "A", N.89°55'E.

at a point 15 lks. S. of

the witness cor. to the

meander cor. of secs.

16 and 21 on the left

bank of the Colorado

River and which is N.89°

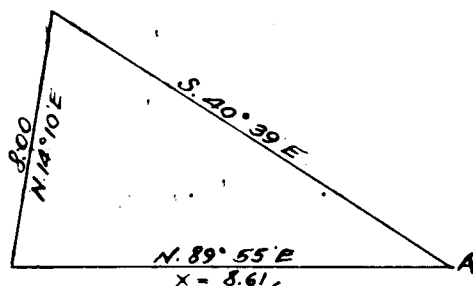
51'E., 3.03 chs. distant from the true cor. point for
the cor. of secs. 16,17,20, and 21. Then measure

base line N.14°10'E., 8.00 chs. distant to a point

whence flag "A" bears S.40°39'E. All bearings taken

by direct reading of the solar and angles checked by

deflection.



SUBDIVISION OF T.28 S., R.20 E.

Chains

Distance on line	= 74.18 chs.
Distance by triangulation	= 82.79 "
	<u>82.79</u> "
Subtract	<u>3.03</u> "
	79.76 "

79.76 Intersect N. and S. line 16 lks. S. of the theoretical position for the cor. of secs. 16,17,20, and 21.

Thence

S.89°55'W., on true line bet. secs. 17 and 20.

In Colorado River.

5.58 Point in river on sand bar in the Colorado River.

9.28 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 17 and 20.

9.53 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 17 and 20 with brass cap marked

T28SR20E	
<u>S17</u>	W
S20	M
1927	C

Deposit a sandstone, 7x3x2 ins. marked with a cross (X) on one face at base of monument.

Thence by triangulation over high ledges and breaks of Colorado River Canyon. to

29.56 Point on top of nearly vertical ledge about 150 ft. high and rim of canyon, bears NE. and SW.; thence over rolling top of bench.

39.88 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$	<u>S17</u>
	S20
	1927

Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

52.15 Spur, projects SW.; begin descent over broken ground.

59.20 Impassable ledges west on line, to pass which I offset, South, 4.32 chs., then on offset line S.89°55'W., 79.76 chs. (counted from point for sec. cor.) then

North, 4.32 chs. to true line at

SUBDIVISION OF T. 28. S., R. 29. E.

Chains

79.76

The cor. of secs. 17, 18, 19, and 20.
Land, bottom lands and rough bench broken by ledges;
general S. exposure and drainage.

Soil, sandy loam and alluvial in river bottom to shallow
sand and rock of sandstone and limestone formation
on the bench; 1st. to 4th. rates.

No timber.

Undergrowth, shadscale and yellow top on bench; willow
and iron brush in river bottom.

N. 89° 59' W., on a random line bet. secs. 18 and 19.

Impassable ledges ahead on line, to pass which I offset
as follows:

North, 6.85 chs., then on offset line

N. 89° 59' W., 16.19 chs., then

South, 6.85 chs. to true random line at

16.19 Thence on random line.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

49.31 Set flag for future reference.

49.94 Mean high water mark left bank Colorado River. Set temp.
meander cor.

50.25 Set flag for future reference.

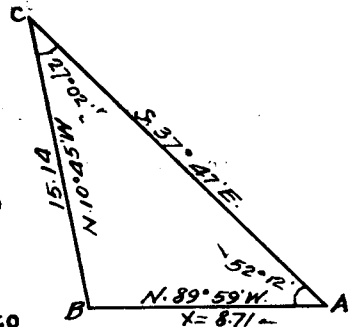
To determine distance across river I return to my point

at 49.31 chs. which I
designate "A" and set
flag "B" on right side
of river; then, from "B"

measure base line "BC"

N. 10° 45' W., 15.14 chs. to

"C". The line "CA" bears S. 37° 47' E., and the angles
subtended at "A" and "C" determined by repetition
are 52° 12' and 27° 02' respectively.



Distance by triangulation

Distance to point "A" on random line

Distance on random line to "B"

Distance by return measurement

8.71 chs.
49.31
58.02
40
57.62

57.62

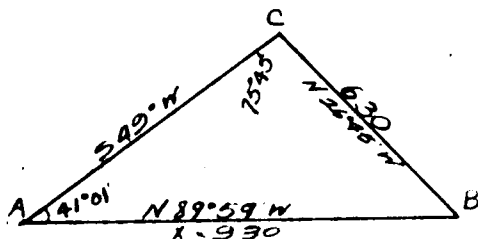
Mean high water mark right bank Colorado River. Set

SUBDIVISION OF T.28 S., R.20 E.

Chains

temp. meander cor.
 58.02 High sandstone ledges and rim of Colorado River Canyon
 west of this point make chaining impracticable to
 determine distance to top I triangulate as follows:
 Set flag "A" on line to

the west, then return
 to my point at 50.25
 cha. which I designate
 "B" and measure base
 line N.26°45'W., 6.30
 cha. to point "C". The
 line "CA" bears S.49°W.



and the angles subtended at "C" and "A" determined
 by repetition are 75°45' and 41°01' respectively.

Distance by triangulation = 9.30 cha.

59.55 Point of triangulation.

79.97 Intersect W. bdy. of Tp. 9 lks. S. of the cor. of
 secs. 13, 18, 19, and 24 heretofore described.

Thence

S.89°55'E., on true line bet. secs. 18 and 19.

Over rough bench land broken by ledges through short
 undergrowth. Ascend.

2.35 Top of sandstone ledge, about 30 ft. high, 50 ft. above
 sec. cor., bears NE. and SW.; thence over bench
 gradually ascending.

20.42 Ridge and ledge rim of Colorado River Canyon, bears NW.
 and SE.; precipitous descent over ledges.

21.95 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
 a large mound of stone over a cross (X) cut in solid
 rock for witness cor. to the meander cor. of secs.
 18 and 19 on the left bank of the Colorado River,
 with brass cap marked

T28SR20E

818

819

1927

W
M
C

SUBDIVISION OF T. 28 S., R. 22 E.

Chains

BRISCO

Corner stands on ledge rim about 30 ft. above mean high water mark, left bank of river. ~~distance 11.18~~ 30.82

22.35 Intersect mean high water mark on the left bank of the Colorado River, also true point for the meander cor. of secs. 18 and 19.

Thence by triangulation across river.

30.03 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 18 and 19.

30.66 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 18 and 19 on the right bank of the Colorado River, with brass cap marked

T28SR20E
 S18
 W /
 M /
 C /
 S19
 1927

Deposit a sandstone, 6x4x3 ins., marked with a cross (X) on one face at base of monument.

Ascend 50 ft. to

37.90 Top of limestone ledge, about 30 ft. high, bears NE. and SE.; thence over bench.

39.97 Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in the ground on solid rock, and 26 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

S18

S19

1927

Deposit a limestone, 10x9x8 ins. marked with a cross (X) on one face, at base of monument.

Ascend 85 ft. to

47.20 Spur, projects SW.; thence over broken S. slope.

52.90 Spur, projects S.; ascend 175 ft. to

62.90 Top of ledge and rim about 150 ft. high, bears NW. and SE.

SUBDIVISION OF T.28 S., R.20 E.

Chains

63.78 Impassable sandstone ledges projecting S. ahead on line

make chaining impracticable; offset

North, 6.85 chs., then on offset line

S.89°55'E., 79.97 chs. (counted from sec. cor), then

South, 6.85 chs. to true line at

79.97 The cor. of secs. 17,18,19, and 20.

Land, rough, rocky benches broken by ledges and cut by
canyons; general E. and W. exposure to Colorado River.

Soil, shallow sand, sandstone and limestone rock; 4th.
rate.

No timber.

Undergrowth, shadscale, yellow top and mountain rush
with willow and iron brush along Colorado River.

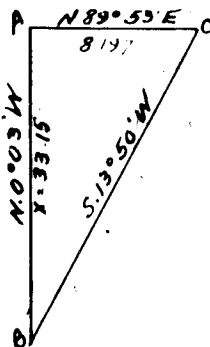
N.0°03'W., bet. secs. 17 and 18.

Over rough, broken bench land through short undergrowth.

1.20 Wash, 30 lks. wide, 3 ft. deep, in canyon, drains SW.;
ascend abruptly over ledges 280 ft. to

9.00 Spur, projects SW.; the line N. crosses a box canyon
which makes chaining impracticable; therefore, I
triangulate as follows:

Set point "A" on line north
and erect flag "B" at this
point; then, from "A"
measure base line N.89°53'E
8.197 chs. to point "C".



The line "CB" bears S.13°50'

W. All bearings taken by direct reading of the solar
and angles checked by deflection.

Distance by triangulation	= 33.15 chs.
Distance on line	= 9.00 "
	<hr/>
	42.15 "
Distance by return measurement	= 7.15 "
	<hr/>
	35.00 "

35.00 Top of ledge and N. rim of box canyon about 10 chs. wide,
150 ft. deep, drains SW; thence over bench.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in

SUBDIVISION OF T28S R.20 E.

Chains

a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

S18	S17
1927	

Impracticable to build accessories to cor.

Ascend 40 ft. to

42.15 Point of triangulation on spur, project W.; descend N. slope.

45.90 Draw and wash, 20 lks. wide, 8 ft. deep, 45 ft. below spur, drains SW.; ascend abruptly over ledges.

67.80 Spur, 130 ft. above draw, projects SW.; ascend SW. slope over ledges 115 ft. to

81.00 Set an iron post, 3 ft. long, 2 ins. in dia., 4 ins. in the ground on solid rock and 26 ins. in a mound of stone for cor. of secs. 7, 8, 17, and 18, with brass cap marked

T28S	R20E
S7	S8
S18	S17
1927	

Deposit a sandstone, 7x6x3 ins. marked with a cross (X) at base of monument.

Land, rough, rocky bench broken by ledges and cut by box canyons; general SW. exposure and drainage.

Soil, shallow sand, sandstone and limestone rock; 4th. rate.

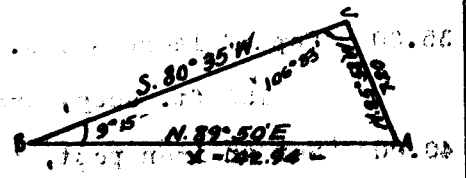
No timber.

Undergrowth, shadscale, yellow top and mountain rush.

N. 89° 50' E., on a random line bet. secs. 8 and 17 for visible signal at the cor. of secs. 8, 9, 16, and 17.

6.34 Ledges ahead on line make chaining impracticable; therefore I triangulate as follows:

Set point "A" ahead on random line and erect flag "B" at this point; then, from "A" measure base line N. 25° 38' W.,



Chains

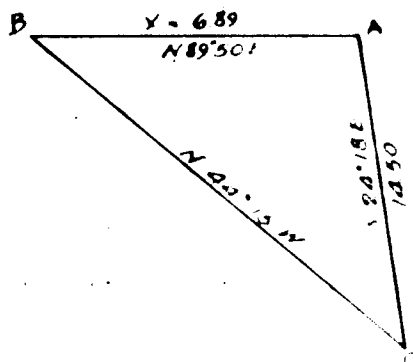
7.20 chs. distant to point "C". The line "CB" bears
 S.80°35'W. and the angles subtended at "C" and "B"
 are 106°33' and 9°15' respectively. All bearings
 taken by direct reading of the solar and angles
 determined by deflection.

Distance by triangulation	= 42.94 chs.
Distance on line	= 6.34 "
Distance on random line to "A"	= 49.28 "
Distance by return measurement	= 5.28 "
	<u>40.00</u> "

40.00 Set temp. $\frac{1}{2}$ sec. cor.

49.28 High ledges and breaks of Colorado River Canyon over
 which it is impracticable to chain; triangulate as
 follows:

Set point "A" on a sand bar
 in Colorado River (on line)
 and erect flag "B" at this
 point; then, from "A"
 measure base line "AC"
 S.24°18'E. on sand bar
 14.50 chs. distant. The

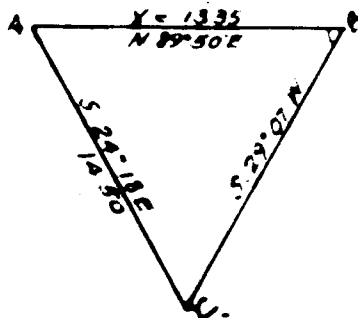


line "CB" bears N.44°15'W. All bearings taken by
 direct reading of the solar and angles checked by
 deflection.

Distance by triangulation	= 6.89 chs.
Distance on line	= 49.28 "
Distance on random line to "A"	= 56.17 "
Distance by return measurement	= 3.77 "
	<u>52.40</u> "

52.40 Mean high water mark on the right bank of the Colorado
 River. Set temp. meander cor.

56.17 To determine distance across river I set flag "B" on
 left bank, then, using
 base line "AC" of the
 preceeding triangulation,
 S.24°18'E., 14.50 chs.
 find that from "B" point
 "C" bears S.29°07'W. All
 bearings taken by direct reading of the solar and



SUBDIVISION OF T.22S.R.20E.

ENTRANCE

Chains

angles checked by deflection

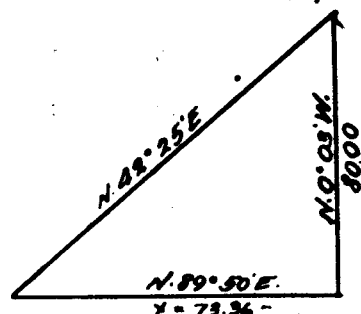
Distance by triangulation = 18.35 chs.
 Distance on line = 56.17 "
 69.52 "

69.52 Mean high water mark on the left bank of the Colorado River. Set temp. meander cor.

The line east to the cor. of secs. 8, 9, 16, and 17 passes over inaccessible ledges impracticable to chain; therefore, I return to my station at 6.34 chs. on the random line and triangulate as follows:

From station 6.34 chs. N. 89° 50' E

of the cor. of secs. 7, 8, 17, and 18 the cor. of secs. 4, 5, 8, and 9, and the cor. of secs. 8, 9, 16 and 17 are visible and bear N. 42° 25' E. and N. 89° 50' E. respectively. Use line bet. secs. 8 and 9 as a base, N. 0° 03' W., 80.00 chs. All bearings taken by direct reading of the solar.



Distance by triangulation = 73.36 chs.
 Distance on line = 6.34 "
 79.70 "

79.70 The cor. of secs. 8, 9, 16, and 17.

Thence

S. 89° 50' W., on true line bet. secs. 8 and 17.

By triangulation over high ledges and breaks of Colorado River Canyon.

9.92 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 8 and 17 on the left bank of the Colorado River, with brass cap marked

WMC | T22S
 88
 S17
 R20E

1927

Deposit a sandstone, 8x5x3 ins. marked with a cross (X) on one face at base of monument

SUBDIVISION OF T.28 S., R.20 E.

Chains

10.18 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 8 and 17. Thence by triangulation to

23.53 Point of triangulation on sand bar in Colorado River. Thence by direct measurement to

27.30 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 8 and 17.

27.58 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 8 and 17 on the right bank of the Colorado River, with brass cap marked

T28S	|	W	
S8			
S17			M
R20E			C
1927			

Deposit a sandstone, 4x6x4 ins. marked with a cross (X) on one face at base of monument.

Thence by triangulation over ledges and breaks of river.

30.42 Point of triangulation on top of high ledge about 200 ft. high and rim of Colorado River Canyon, bears N, and S.; thence over bench.

39.85 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$	S8
	S17
	1927

Impracticable to build accessories to cor.

Thence by triangulation over series of sandstone ledges.

43.00 Approximate distance to spur, projects N.

55.00 Approximate distance to head of box canyon, draining NE.

73.36 Point of triangulation; thence over broken ground to

79.70 The cor. of secs. 7, 8, 17 and 18.

Land, rough, rocky benches broken by sandstone ledges and cut by canyons; general S. exposure and W. drainage.

Soil, shallow sand, sandstone and limestone rock; 4th.

SURVEY OF T. 24 S. R. 20 E.

enlaid

Chains

51.01

rate.

No timber.

Undergrowth, shadscale, mountain rush and yellow top;
dense willow and iron brush along river.

$N. 86^{\circ} 55' W.$, on a random line bet. secs. 7 and 18.

41.20 Set temp. $\frac{1}{4}$ sec. cor.

77.27 Intersect $N.$ bdy. of the Tp. 9 lks. S. of the cor. of secs.
7, 12, 13, and 18 heretofore described.

Thence

$N. 86^{\circ} 1' E.$, on true line bet. secs. 7 and 18.

Ascend over rough broken bench land through scattered
mountain growth.

42.27 Top of ledge, 110 ft. above sec. cor., bears NE. and S.;
gradually ascend over rough broken ground.

43.40 Spur, 105 ft. above top of ledge, projects SW.; gradually
descend.

44.40 Rim of box canyon, bears N. and S.

45.2 Bottom of box canyon, 150 ft. deep, drains S.; ascend.

46.40 Rim of box canyon, bears N. and S.

Ascend over general W. slope.

47.20 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a large mound of stone over a cross (X) cut in solid
rock for $\frac{1}{4}$ sec. cor., with brass cap marked

87

$\frac{1}{4}$

818

1927

Inconvenient to build accessories to cor.

48.25 Spur, 260 ft. above box canyon, projects SW.; descend.

49.20 Bottom of wash, 30 lks. wide, 3 ft. deep, in draw 50 ft.
below spur, drains SW.; ascend broken W. slope 280 ft.

50.20 The cor. of secs. 7, 8, 17 and 18.

Land, rough, rocky bench land broken by ledges and cut
by canyons; general S. exposure and drainage.

Soil, shallow sand, sandstone and limestone rock.

No timber.

SUBDIVISION OF T.28 S., R.20 E.

Chains

Undergrowth, scattered shade-scale and yellow top.

N.0°05'W., bet. secs. 7 and 8.

Ascend over rough broken bench land through short undergrowth.

7.50 Top of ascent, 90 ft. above sec. cor., bears NW. and NE.; thence over rolling bench.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 1 in. in a large mound of stone over a cross, cut in rock for sec. cor., with brass cap marked

8
7 | 1A
1927

Impracticable to build accessaries to cor.

6.00 Rim of box canyon, bears E. and NW., descend over ridge.

42.00 Bottom of canyon, about 10 ft. deep, bears E. and NW., ascend over ridge.

40.00 Top of ledge and rim of canyon, bears NE. and SW., descend over rolling bench.

70.10 Low spur, projects E., descend.

41.00 Set an iron post, 3 ft. long, 1 in. in dia., 1 in. in the ground on solid rock and 14 in. in a mound of stone for cor. of secs. 3, 6, 7, and 8, with brass cap marked

TRAIL | ROCK
121 | 1A
27 | 1A
1927

Deposit a sandstone, 12x10x10 in., marked with a cross on one face at base of monument.

Land, rolling and broken bench; general E. exposure and drainage.

Soil, shallow sand, sandstone and limestone rock; 4th rate.

No timber.

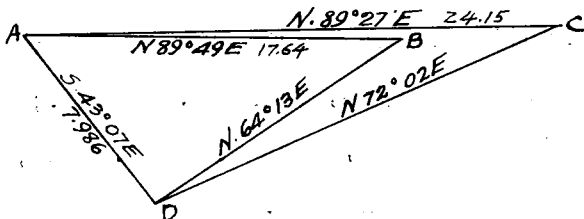
Undergrowth, shade-scale and yellow top.

SUBDIVISION OF T.28 S., R.20 E.

Chains

N.89°49'E., on a random line bet. secs. 5 and 8 for signal set 6.96 chs. S.89°50'W. of the cor. of secs. 4,5,8, and 9.

- 8.99 Line east descends breaks of Colorado River Canyon and crosses river; therefore, I triangulate as follows: Designate this point "A" and set flag "B" N.89°49'E. on left bank of river, and flag "C" N.89°27'E. on E. rim of Colorado River Canyon. Measure base line "AD" S.43°07'E., 7.986 chs. From "D" flag "B" bears N.64°13'E. and flag "C" bears N.72°02'E. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance line "AB" by triangulation = 17.64 chs. which added to 8.99 chs. gives 26.63 chs. to point "B" on left bank Colorado River.

Distance line "AC" by triangulation = 24.15 chs. which added to 8.99 chs. gives 33.14 chs. to point "C" on rim of canyon, which by computation is 15 lks. N. of true random line.

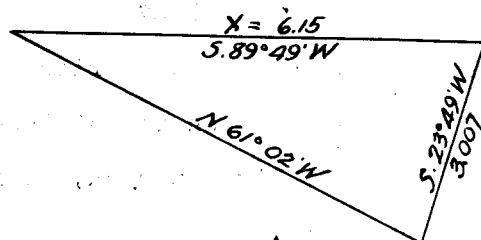
I now proceed to flag at 26.63 chs. on left bank of the Colorado river and determine distance to the right bank as follows:

By direct measurement, S.89°49'W., 3.76 chs. to a point on sand bar in river at 22.87 chs. on random line. Set flag on random line on right bank of river, then measure a base line along sand bar, S.23°49'W., 3.007 chs. From S. end of base flag on right bank of river

SUBDIVISION OF T.26 S., R.20 E.

Chains

bears N.61°02'W. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance on random line = 22.87 chs:

Distance by triangulation (return measurement)

$$\frac{6.15}{16.72} "$$

- 16.72 Point of triangulation on mean high water mark right bank Colorado River. Set temp. meander cor.
- 22.87 Point triangulation on sand bar in Colorado River.
- 26.63 Point triangulation on mean high water mark left bank Colorado River. Set temp. meander cor.
- 33.14 Point triangulation, 15 lks. N. of true random line; offset
South, 15 lks. to random line, thence
N.89°49'E.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 72.86 Intersect flag set 6.96 chs. S.89°50'W. of the cor. of
secs. 4, 5, 8, and 9.
- 79.82 Intersect cor. of secs. 4, 5, 8, and 9.
Thence
S.89°49'W., on true line bet. secs. 5 and 8.
Ascend over rough, rocky bench land through short under-
growth.
- 6.96 Flag on spur, 50 ft. above sec. cor., projects SW. about
3 chs. distant; thence over rolling land.
- 23.25 Begin descent over series of small ledges, bears N. and
S.
- 37.00 Base of ledges, 335 ft. below spur, bears N. and S.;
thence over a limestone bench.
- 39.91 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a large mound of stone over a cross (X) cut in solid

SUBDIVISION OF T. 26 S., R. 20 E.

Chains

rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S5
 S8
 1927

Impracticable to build accessories to cor.

46.68 Point of triangulation on top of ledge, 30 ft. high and rim of Colorado River Canyon, bears NE. and SW.; descend abruptly.

52.82 Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in the ground for witness cor. to the meander cor. of secs. 5 and 8 on the left bank of the Colorado River with brass cap marked

W	|	T28S
M	|	S5
C	|	S8
		R20E

 1927

Deposit a red sandstone, 6x6x5 ins. marked with a cross (X) on one face at base of monument.

Cor. stands in a dense willow thicket.

53.19 Point of triangulation at mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 5 and 8.

Thence across river.

56.95 Point of triangulation on sand bar in Colorado River.

63.10 Point of triangulation at mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 5 and 8.

63.62 Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for witness cor. to the meander cor. of secs. 5 and 8 on the right bank of the Colorado River, with brass cap marked

T28S	|	W
S5	|	M
S8	|	C
R20E		

 1927

Deposit a limestone, 10x6x4 ins. marked with a cross (X) on one face at base of monument.

Also,

SUBDIVISION OF T. 28 S., R. 20 E.

Chains

Face of a limestone rim, marked BO X 8, 2 ft. above ground, bears S. 22 $\frac{1}{2}$ ° W., 7 lks. distant.

Face of same limestone rim, marked BO X 5, 5 ft. above ground, bears N. 14° 45' W., 10 lks. distant.

Cor. stands at base of limestone shelf or rim, about 30 ft. above water edge, bears N. and S.

Thence by triangulation over ledges and breaks of river canyon.

70.83 Point of triangulation on top of ledge and rim of canyon, about 200 ft. high, bears N. and S.; thence over broken bench land.

79.82 The cor. of secs. 5, 6, 7 and 8.

Land, rough and rocky benches broken by ledges and outcroppings and cut by box canyons; general E. and W. exposure and drainage to Colorado River which flows S.

Soil, shallow sand, sandstone and limestone rock; 4th rate.

No timber.

Undergrowth, shadscale and yellow top on benches and dense willow along river.

N. 89° 51' W., on a random line bet. secs. 6 and 7.

13.64 Line to the west ascends high ledge over which it is impracticable to chain; I therefore triangulate as follows:

Set flag on random line

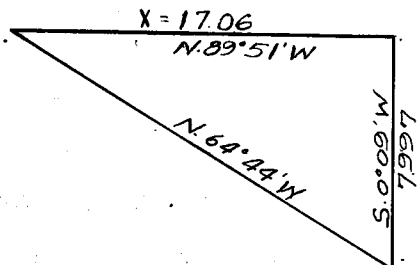
to the west, then

measure base line

S. 0° 09' W., 7.997 chs.

From S. end of base

flag bears N. 64° 44' W.



All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 17.06 chs.

30.70 Point of triangulation.

SUBDIVISION OF T20 S. 23 E.

Chains

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 45.00 Line to west ascends precipitous slope on point of spur to pass which I offset as follows:
 South, 2.50 chs., then on offset line
 N.89°51'W., 25.67 chs., then
 North, 2.50 chs. to true random line at
- 70.67 Thence on random line.
- 79.59 Intersect W. bdy. of the Tp. 9 lks. S. of the cor. of
 secs. 1, 6, 7, and 12 heretofore described.
 Thence
 S.89°47'E., on true line bet. secs. 6 and 7.
 Gradually ascend over broken bench land through short
 undergrowth.
- 8.92 Spur, projects S.; the line east strikes ledges and
 precipitous slope of spur; offset
 South, 2.50 chs., then on offset line
 S.89°47'E., 34.59 chs. (counted from sec. cor.), then
 North, 2.50 chs. to true line at
- 34.59 Ascend over W. slope; thence S.89°47'E., on true line.
- 39.59 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
 a large mound of stone over a cross (X) cut in solid
 rock for $\frac{1}{4}$ sec. cor., with brass cap marked
- S 6

$\frac{1}{4}$ S 7
- 1927
- Impracticable to build accessories to cor.
- 48.89 Top of spur, 220 ft. above $\frac{1}{4}$ sec. cor., projects S.;
 thence over high ledge.
- 54.60 Approximate distance to base of sandstone ledge about
 150 ft. high, bears N. and S.
- 65.95 Thence gradually descend over broken ground.
- 73.00 Wash, 30 lks. wide, 3 ft. deep, in draw, drains N.;
 gradually ascend
- 74.30 Low spur, projects S.
- 79.59 The cor. of secs. 5, 6, 7, and 8.

SUBDIVISION OF T.28 S., R.20 E.

Chains

Land, rough, rocky bench land broken by ledges and outcroppings and cut by deep canyons; general E. exposure and drainage.

Soil, shallow sand, sandstone and limestone rock; 4th. rate.

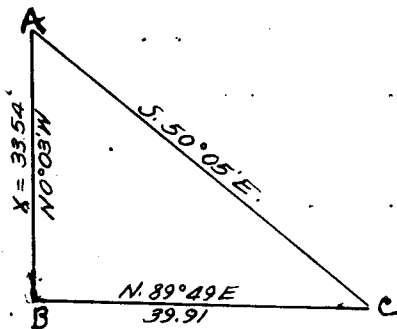
No timber.

Undergrowth, shadscale and yellow top.

N.0°03'W., on a random line bet. secs. 5 and 6.

Line north crosses a box canyon which makes chaining impracticable; I therefore triangulate as follows:

Set point "A" on line to the north and erect flag "B" at this point; from "A" the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 8 which I designate "C" bears S.50°05'E. Base line "BC"



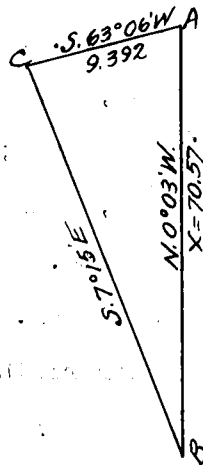
or west half mile bet. secs. 5 and 8 bears N.89°49'E., 39.91 chs. distant. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 33.54 chs.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

Line north ascends high sandstone ledges over which I cannot chain; I therefore make the following triangulation.

Set point "A" on line north and erect flag "B" at a point 1.91 chs. S.0°03'E, of the cor. of secs. 5, 6, 7 and 8. From "A" measure base line "AC", S.63°06'W., 9.392 chs. The line "CB" bears S.7°15'E. All



bearings taken by direct reading of the solar and angles checked by deflection.

CONFIDENTIAL - SECURITY INFORMATION

Chains

Distance by triangulation = 70.57 chs.
Subtract 21.91 = 48.66

62.66 North point of triangulation

60.43 Intersect N. bdy. of the Tp. 2 lks. E. of the cor. of
secs. 5, 6, 31 and 32 heretofore described.

Thence
S. 0° 04' E., on true line bet. secs. 5 and 6.
Gradually ascend over rolling bench land sloping N.
through short undergrowth.

11.77 Point on top of spur, 80 ft. above sec. cor.,
projects E.; descend over high, broken sandstone
ledges.

35.00 Draw, wash in same, 30 lks. wide, 10 ft. deep, drains E.;
ascend N. slope.

40.43 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a large mound of stone over a cross (X) cut in solid
rock for $\frac{1}{4}$ sec. cor., with brass cap marked

+
S6 | S5
1927

Impracticable to build accessories to cor.

46.89 Point on top of spur, 65 ft. above $\frac{1}{4}$ sec. cor.,
projects E.; descend.

60.00 Approximate distance to bottom of box canyon, about 3 chs.
wide and 200 ft. deep, drains SE.

80.43 The cor. of secs. 5, 6, 7, and 8.
Land, rough, rocky bench broken by ledges and cut by
canyons; general E. exposure and drainage.
Soil, shallow sand, sandstone and limestone rock; 4th.
rate.
No timber.
Undergrowth, shade-scale and yellow top.

MEANDERS, T.28 S., R.20 E.

MEANDERS OF THE LEFT BANK OF THE COLORADO RIVER, DOWN STREAM.

From the true point for the meander cor. of secs. 5 and 32, left bank of the Colorado River, on the N. bdy. of the Tp. heretofore described.

Thence with meanders in sec. 5.

Along sandy alluvial bank; very dense undergrowth to the left of meander line.

S.33°15'E., 12.10 chs.

S.20°15'E., 4.50 "

S.29°45'E., 4.50 " End of course on rim, 50 ft. high.

S. 5°30'E., 4.50 " Along rim.
At end of course rim turns E.

S. 1°45'E., 3.70 " At 1.40 chs. wash in mouth of draw from the E.
End of course on rim, 20 ft. above water.

S.20°30'W., 4.70 " Along rim 20 to 30 ft. above water.

S.23°45'W., 11.10 " Along bare rock bank, 5 to 10 ft. above water.

S. 1°15'E., 2.30 " At end of course, wash from the E.

S.34°45'W., 4.90 " Along alluvial bank.

S.24°00'W., 10.40 " End of course on rim, 40 ft. high.

S.11°15'W., 5.20 " At .60 chs. rim turns E.
At 1.70 chs. wash in draw from the E.
At 2.30 chs. on rim 40 ft. high from the E.; thence along rim.

S.12°45'W., 4.40 " At 1.00 chs. leave rim; thence along sandy alluvial bank.

S.16°45'W., 8.40 "

S.13°15'W., 6.20 " To true point for the meander cor. of secs. 5 and 8 heretofore described.

Land, river bottom and vertical ledge rims.

Soil, sandy alluvial loam, 1st. and 2nd. rates; also
rocky; 4th. rate.

Timber, a few scattered box elder.

BRANNERS, T-22 S., R-20 E.

Undergrowth, willow, iron brush, poison oak, greasewood,
and yellow top.

Thence in sec. 8

Along sandy alluvial bank covered with dense under-
growth.

S.13°15'W., 6.40 chs.

S. 6°30'E., 5.00 "

S.13°45'E., 4.00 " At 3.60 chs. wash in draw from
the NE.

S.18°45'E., 3.20 "

S.27°00'E., 6.80 "

S.30°45'E., 12.40 "

S.32°30'E., 9.30 "

S.34°45'E., 12.70 "

S.36°45'E., 7.50 "

S.32°00'E., 5.90 "

S.40°15'E., 10.40 "

S.38°00'E., 7.60 "

S.32°15'E., 2.15 " To true point for meander cor. of
secs. 8 and 17 heretofore des-
cribed.

Land, level.

Soil, sandy alluvial, 1st. and 2nd. rates; also rocky,
3rd. and 4th. rates.

Timber, a few scattered box elder.

Undergrowth, willow, iron brush, and poison oak.

Thence in sec. 17.

Along sandy alluvial bank covered with dense undergrowth.

S.17°30'E., 8.60 chs.

S.13°30'E., 10.90 "

S.17°00'E., 5.10 "

S.22°00'E., 5.70 "

S.22°30'E., 3.60 " To true point for meander cor. of
secs. 16 and 17 heretofore des-
cribed, in wash at mouth of canyon
from NE.

Land, level.

Soil, sandy alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 16

Along alluvial bank.

S. 80°00'E., 11.00 chs.

S. 16°30'E., 8.60 "

S. 9°30'E., 7.90 "

S. 1°30'W., 3.20 "

S. 13°30'E., 3.90 "

At 3.40 chs. center line of derrick at Hazelton Test Well No. 1 (oil) bears S. 81°39'E., 10.32 chs dist.

S. 3°00'E., 2.80 "

S. 3°15'E., 5.40 "

At .20 chs. wash in Lockhart Canyon from the E.

S. 51°30'W., 4.10 "

S. 38°00'W., 4.40 "

To true point for the meander cor. of secs. 16 and 21 heretofore described.

Land, level.

Soil, alluvial and rocky; 1st to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 21

Along alluvial bank.

S. 44°00'W., 2.00 chs.

S. 22°15'W., 4.00 "

To true point for meander cor. of secs. 20 and 21 heretofore described.

Land, level.

Soil, alluvial; 1st rate.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 20

Along alluvial bank.

S.37°30'W., 1.20 chs.

S.30°00'W., 4.80 " End of course on rim on N. side of mouth of Horse Thief Canyon.

S.34°15'W., 5.75 " Horse Thief Canyon wash from the SE. at end of course.

S.44°30'W., 2.95 " End of course on rim on S. side of Horse Thief Canyon.

S.61°00'W., 9.20 "

S.68°00'W., 9.00 " At 7.60 chs. small wash from the S.

N.85°45'W., 4.20 "

S.76°00'W., 8.80 "

S.65°00'W., 4.50 "

S.86°15'W., 5.00 "

S.74°30'W., 7.80 "

N.87°30'W., 4.20 "

S.72°00'W., 4.90 "

S.80°30'W., 6.40 "

S.83°45'W., 10.55 " To true point for meander cor. of secs. 19 and 20 heretofore described.

Land, level river bottom and sandstone rims.

Soil, sandy alluvial and rocky; 1st. to 4th. rates.

Timber, a few scattered box elder.

Undergrowth, willow, iron brush, and poison oak.

Thence in sec. 19

Along alluvial bank.

S.88°45'W., 7.95 chs.

N.85°30'W., 8.40 "

N.81°45'W., 9.35 "

N.69°45'W., 11.65 "

N.64°30'W., 7.50 "

N.34°45'W., 4.35 "

N.15°00'W., 1.90 "

N.45°15'W., 4.35 "

N.29°45'W., 5.90 "

N.25°15'W., 8.60 "

At 3.75 chs. wash from the SW.

Along rim which is 50 lks. to 1 ch. to the left.

MEANDERS, T.28 S., R.20 E.

20°45'W., 4.40 chs. To true point for meander cor.

of secs. 18 and 19 heretofore described.

Land, level river bottom.

Soil, sandy alluvial and rocky; 1st. to 4th. rates.

Timber, a few scattered box elder.

Undergrowth, willow and iron brush.

Thence in sec. 18.

Along alluvial bank.

N.13°00'W., 7.80 chs.

N. 4°15'W., 6.65 "

N. 8°45'W., 4.70 "

N.15°30'W., 4.20 "

Along limestone rim.

At end of course limestone rim or outcropping dips NW.

N.13°00'W., 6.20 "

N.13°15'W., 4.40 "

N.15°45'W., 3.50 "

N.24°15'W., 3.30 "

N.37°00'W., 7.75 "

N.52°15'W., 2.85 "

At .30 chs. the N. edge of an old Cliff Dwellers Ruin, bears S.54° 48'W., 7.40 chs. distant.

N.77°00'W., 3.30 "

N.83°30'W., 3.32 "

To true point for meander cor. of secs. 13 and 18 on the W. bdy. of the Tp. heretofore described.

Land, level river bottom and rims.

Soil, alluvial and rocky; 1st. to 4th. rates.

Timber, a few scattered box elder.

Undergrowth, willow and iron brush.

Thence in sec. 19,

From true point for the meander cor. of secs. 19 and 24

on the W. bdy. of the Tp. heretofore described.

Along alluvial bank.

S.53°00'E., 5.50 chs.

S.33°30'E., 11.50 "

Along base of rim 100 ft. high.

MEANDERS, T. 22 S., R. 22 E.

At end of course rim turns NE.

S. 42° 45' E., 1.30 chs.

S. 28° 45' E., 2.90 "

At 2.20 chs., wash in mouth of
draw from the NE, to
true point for meander cor.
of secs. 19 and 30 heretofore
described.

Land, level river bottom.

Soil, alluvial and rocky; 1st. to 4th. rates.

Timber, a few scattered box elder.

Undergrowth, willow and iron brush.

Thence in sec. 30

S. 4° 45' W., 1.80 chs. In mouth of draw from the NE.
At .70 chs., leave draw, thence
along ledge rim.

S. 17° 30' E., 2.95 " Along base of ledge rim.

S. 0° 15' W., 5.00 "

S. 9° 30' E., 9.75 "

S. 1° 45' W., 7.55 "

S. 20° 00' W., 6.70 "

S. 14° 30' W., 9.50 "

S. 4° 30' W., 20.70 "

S. 3° 45' W., 5.65 "

S. 10° 30' W., 5.50 "

S. 4° 15' W., 6.05 " To true point for meander cor.
of secs. 30 and 31 heretofore
described.

Land level river bottom and rims.

Soil, alluvial and rocky; 1st. to 4th. rates.

Timber, a few scattered box elder.

Undergrowth, willow and iron brush.

Thence in sec. 31

Along alluvial bank.

S. 4° 15' W., 9.80 chs. At end of course wash from the
NE.

S. 5° 00' W., 10.35 " At 2.05 chs. Cliff Dweller
tower, bears S. 81° 45' E., 3.10
chs. distant.

S. 5° 30' W., 9.00 "

S. 4° 30' E., 11.50 chs.

S. 11° 45' E., 6.40 "

S. 17° 30' E., 4.80 "

S. 24° 00' E., 6.80 "

S. 29° 15' E., 8.00 "

S. 31° 15' E., 16.90 " To true point for meander cor. of secs. 6 and 31, Tps. 28 and 29 S., R. 20 E. which is an iron post, 1 in. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T. 29 S., R. 20 E., book "A" this group.

Land, level river bottom.

Soil, alluvial and rocky; 1st. to 4th. rate.

Timber, a few scattered box elder...

Undergrowth, willow and iron brush.

MEANDERS OF THE RIGHT BANK OF THE COLORADO RIVER, UP STREAM.

From the true point for the meander cor. of secs. 6 and 31, Tps. 28 and 29 S., R. 20 E., which is an iron post, 1 in. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T. 29 S., R. 20 E., book "A" this group.

Thence with meanders in sec. 31

Along alluvial bank.

N. 41° 00' W., 5.55 chs.

N. 35° 15' W., 5.10 "

N. 27° 30' W., 6.90 " To true point for meander cor. of secs. 31 and 36 on the W. bdy. of the Tp. heretofore described.

Land, level.

Soil, alluvial and rocky; 1st. to 4 th. rates.

No timber.

Undergrowth, willow and iron brush.

MEANDERS. T. 25 N. 15 E. 30 E.

Thence in sec. 30,

From true point for the meander cor. of secs. 25 and 30 on the W. bdy. of the Tp. heretofore described.

Along alluvial bank.

N.15°30'E., 16.75 chs.

N.10°15'E., 13.65 "

N. 8°15'E., 6.85 "

N. 7°45'W., 4.70 "

N.18°15'W., 4.60 "

N.30°30'W., 9.14 " At .20 chs. wash from the west.
To true point for meander cor. of
secs. 19 and 30, heretofore
described

Land, level..

Soil, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 19.

Along alluvial bank.

N.37°00'W., 1.98 chs. To true point for meander cor. of
secs. 19 and 24 on the W. bdy. of
the Tp. heretofore described.

Land, level...

Soil, alluvial, 1st. rate.

No timber.

Undergrowth, willow.

Thence in sec. 18,

From true point for meander cor. of secs. 13 and 18 on
the W. bdy. of the Tp. heretofore described.

S.67°00'E., 6.20 chs.

S.56°45'E., 7.00 "

S.53°45'E., 8.45 " At 5.50 chs. limestone strata
enters water and dips to the NW.

S.50°30'E., 6.30 "

S.32°00'E., 4.40 " At .20 chs. thence across mouth of
large draw.

At 3.75 chs. , S. edge of mouth
 of draw; thence on ledge rim.
 Leave ledge rim at end of course.

S.12°00'E., 7.20 chs.

S. 2°15'W., 7.60 "

S. 3°30'E., 7.15 "

S. 1°45'E., 6.65 "

S. 6°15'E., 4.15 " At .20 chs. wash from the E.

S.15°45'E., 5.70 "

S.20°00'E., 2.20 " To true point for meander cor.
 of secs. 18 and 19 heretofore
 described.

Land, level river bottom and ledge rims.

Soil, alluvial and rocky; 1st. to 4th. rates.

Timber, a few scattered box elder.

Undergrowth, willow and iron brush.

Thence in sec. 19

Along alluvial bank.

S.23°15'E., 3.50 chs.

S.29°15'E., 3.20 "

S.36°45'E., 2.30 "

S.43°15'E., 4.50 "

S.51°00'E., 3.70 "

S.60°30'E., 9.80 "

S.73°00'E., 2.50 "

S.81°15'E., 3.00 "

N.81°45'E., 3.60 " At end of course mouth of wash
 from the N.

S.85°30'E., 5.70 "

S.77°00'E., 1.80 "

N.76°15'E., 1.80 "

N.83°00'E., 7.80 "

S.88°00'E., 5.20 " To true point for meander cor. of
 secs. 19 and 20 heretofore des-
 cribed.

Land, level.

Soil, alluvial and rocky; 1st. to 4th. rates.

Timber, a few scattered box elder.

MEANDERS, T-28 S., R-28 E.

Undergrowth, willow and iron brush.

Thence in sec. 20

Along alluvial bank.

S.77°45'E., 7.35 chs.

S.80°15'E., 4.10 chs.

S.88°30'E., 5.90 "

S.88°00'E., 6.80 "

S.89°15'E., 4.00 "

N.88°30'E., 4.80 "

N.83°45'E., 7.45 "

N.77°00'E., 7.00 "

N.70°00'E., 6.10 "

N.62°15'E., 5.00 "

N.52°00'E., 9.20 "

N.37°30'E., 8.00 "

N.27°15'E., 2.60 "

To true point for meander cor. of
secs. 17 and 20 heretofore de-
scribed.

Land, level.

Soil, alluvial and rocky; 1st. to 4th. rate.

Timber, a few scattered box elder.

Undergrowth, willow and iron brush.

Thence in sec.17

Along alluvial bank through dense undergrowth.

N.22°15'E., 6.40 chs.

N. 9°45'E., 6.20 "

N. 6°30'E., 8.70 "

N. 2°15'W., 5.60 "

N.11°30'W., 3.90 "

N.26°30'W., 4.20 "

At end of course the S. end of a
high sand bar, covered with dense
willow undergrowth (no trees) bears
N.21°E., 3.30 chs. distant

N.29°15'W., 8.60 "

At end of course point on W. side
of sand bar, bears N.35°30'E., 1.50
chs. distant.

N. 28° 00' W., 5.40 chs. At end of course W. edge of sand bar bears N. 53° 30' E., 1.55 chs. distant; east edge of sand bar bears N. 42° 30' E., 8.20 chs. dist.

N. 21° 45' W., 9.70 " At end of course, N. end of sand bar bears N. 19° 50' E., 7.35 chs. dist.; point on E. side of sand bar bears N. 69° E., 6.25 chs. dist., and point on W. side of sand bar bears S. 63° 45' E., 3.50 chs. dist.

N. 20° 15' W., 11.50 "

N. 20° 45' W., 15.00 " To true point for meander cor. of secs. 8 and 17 heretofore described.

Land, level.

Soil, sandy alluvial, 1st. and 2nd. rates.

Timber, a few scattered box elder.

Undergrowth, dense willow and iron brush.

Thence in sec. 8.

Along alluvial bank.

N. 21° 00' W., 9.10 chs.

N. 28° 45' W., 11.30 "

N. 30° 15' W., 14.60 "

N. 25° 15' W., 8.40 "

N. 28° 45' W., 13.45 "

N. 30° 45' W., 7.60 "

N. 33° 45' W., 3.30 " At 1.90 chs. mouth of wash from the W.

N. 12° 30' W., 10.60 "

N. 16° 45' W., 5.80 "

N. 0° 30' E., 4.05 " To true point for meander cor. of secs. 5 and 8 heretofore described.

Land, level river bottom.

Soil, sandy alluvial with some rock; 1st. to 4th. rates.

Timber, a few scattered box elder.

Undergrowth, willow and iron brush.

Thence in sec. 5.

Along broken rocky bank at edge of dense undergrowth.

N. 5° 00' E., 6.00 chs.

CHANDLER, T. 28 S., R. 20 E.

N. 4°30'W., 2.60 chs.
... N. 2°00'E., 16.70 chs.
... N. 20°15'E., 6.00 chs.
... N. 12°15'E., 31.70 chs.
... N. 29°00'E., 11.80 chs. At .70 chs., mouth of wash from the west; thence along rocky alluvial bank 3 to 6 ft. high.
... N. 42°00'E., 6.70 chs.
... N. 29°15'E., 10.80 "
... N. 19°45'E., 13.70 " Along rocky bank through very dense undergrowth.
... N. 23°45'W., 10.60 "
... N. 22°30'W., 11.10 "
... N. 20°15'W., 8.20 " To true point for the meander center of secs. 5 and 32 on the N. bdy. of the Tp. heretofore described.
Land, level.
Soil, sandy alluvial and rocky; 1st. to 4th rates.
No timber.
Undergrowth, dense willow and undergrowth.

BOUNDARIES OF T.28 S., R.20 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Lines designated	True bearing	Distances	Latitudes		Departures	
			N chs	S chs	E chs	W chs
E.bdy. T28SR20E	North	480.00	480.00			
N.bdy. T28SR20E	N.89°55'W	479.34	.70			479.34
W.bdy. T28SR20E	South	480.00		480.00		
S.bdy. T28SR20E	S.89°59'E	479.97		.14	479.97	
Convergency						.57
		Totals	480.70	480.14	479.97	479.91
			480.10			
		Error in latitude =	.56		479.91	
		Error in departure =			.06	

thence in sec. 5
Along broken rocky bank to edge of dense undergrowth
... N. 8°00'E., 6.00 chs.

GENERAL DESCRIPTION

The land in this township is all rough and broken. The west portion comprises the breaks of the Colorado River which flows in a southerly direction, entering the township in sec. 5 and leaving in sec. 31, and consists of rough bench land broken by ledges and cut by deep, impassable box canyons all draining into the Colorado River. Hatch Point, a high mesa or bench is situated in the extreme northeast corner of the township; this bench is rimmed with vertical wall of sandstone 200 to 300 ft. high. The top of the bench is rolling while its slopes are precipitous and break abruptly to the west. Lockhart Basin in the southeast corner of the township contains about 4 sections of open rolling land. Lockhart Wash and its tributaries flows or drains in a northwesterly direction through this basin and forms a box canyon in sec. 26 and continues in a northwesterly direction as such to where it empties into the Colorado River in sec. 16. This canyon, while not unusually deep is rimmed with vertical walls of sandstone and is practically inaccessible.

The soil in Lockhart Canyon and along the Colorado River is sandy alluvial and mixed with considerable rock of sandstone and limestone formation. The soil of the remaining portion of the township is generally a shallow sand or clay mixed with sandstone or limestone rock and lies on bedrock which is close to the surface and in many places exposed.

A scrub growth of juniper and pinon timber is found on Hatch Point; also, a few cottonwood and box elder grow along the banks of Lockhart Wash and the Colorado River. Short desert brush consisting of shadscale, black brush, mountain rush, yellow top, and native grasses grow throughout the township and afford browse

GENERAL DESCRIPTION

for sheep and cattle during the winter months. Along the Colorado River, dense willow, iron brush, greasewood and poison oak grows abundantly.

With the exception of the Colorado River and intermittent seeps along Lockhart Wash, the only water in the township are small springs in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, and the NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27.

There are no settlers living in the township.

No surface indications of mineral or oil were noted during the survey of the township. Hazleton test oil well, locally known as Lockhart No. 1 was driven in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16 along the Colorado River but this well is now abandoned.

Moab, Utah, about 40 miles distant from the mouth of Lockhart Canyon, by river is the nearest post-office.

No magnetic declination was taken on account of defective needles.

ARMY JUDGE ADVOCATE GENERAL'S OFFICE
FEDERAL BUILDING

[illegible]

BOOK A-496

4-680

(August, 1926).

FIELD ASSISTANTS.

[illegible]

CERTIFICATE OF UNITED STATES SURVEYORS
AND CADASTRAL ENGINEER.

Carl S. Swanholm, U.S. Cadastral Engineer, Chas. F. Moore
Wei, and Robert C. Yundt, U. S. Surveyors hereby certify upon honor that, in pursuance
of special instructions received from the District Cadastral Engineer for Utah
bearing date of the 8th day of March, 1926, we have well, faithfully, and truly
in our own proper persons and in strict conformity with said instructions, the Manual of Surveying Instruc-
tions, and the laws of the United States, surveyed all those parts or portions of East, west,
and north boundaries, and subdivision and meanders of T.28 S.,
R.20 E.

of the Salt Lake Base
and Meridian, in the State of Utah, which are represented in
the foregoing field notes as having been executed by us, and under our direction; and that all the corners of
said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the District Cadastral Engineer for Utah
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
such survey. Certified to at:
Moon Utah May 20-1928

Carl S. Swanholm
U.S. Cadastral Engineer
Chas. F. Moore
Robert C. Yundt
U. S. Surveyor.
U. S. Surveyor.

APPROVAL.

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colo. JAN 23 1933, 19

The foregoing field notes of the survey of east, west, north boundaries,
and the subdivisions and meanders in T. 28 S., R. 20 E.

executed by Carl S. Swanholm, U.S. Cadastral Engineer and Chas. F. Moore
and Robert C. Yundt, U.S. Surveyors.
under his special instructions dated March 8, 1926, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the survey
they describe, are hereby approved.

Quinton D. Dimes
U. S. Supervisor of Surveys

I certify that the foregoing transcript of the field notes of the above described surveys in
has been correctly copied from the original notes on file in this office.

U. S. Supervisor of Surveys

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FIELD NOTES

OF THE ~~SURVEY~~ ~~COPIES~~

RETRACEMENT OF THE EAST BOUNDARY: ESTABLISHMENT OF QUARTER

SECTION CORNERS BETWEEN CLOSINGS CORNERS ON THE NORTH

BOUNDARY: SURVEY OF THE SOUTH BOUNDARY, SUBDIVISION AND

AND MEANDERS: ALL IN T. 27 S., R.21 E.

Of the Salt Lake Base and Meridian,

In the State of Utah

EXECUTED BY

Carl S. Swanholm, U. S. Cadastral Engineer,
and

Robert C. Yundt and Chas. F. Moore

In the capacity of U. S. Surveyor ~~2~~, under instructions dated March 8, 1926, ~~1927~~,
District Cadastral Engineer
issued by the United States ~~Surveyor General~~ to govern surveys included in
Group No. 176, which were approved by the Commissioner of the General Land
Office, March 24, 1926, ~~1927~~ and assignment instructions dated April
1, 1926 and supplemental assignment instructions dated July 19, 1926,
May 10, 1927 and August 10, 1927.

Survey commenced July 29, 1926, ~~1927~~Survey completed November 9, 1927, ~~1928~~

BOOK A-496

INDEX DIAGRAM.

Township		27 South			Range		21 East				
111		111	110		110		109	109			
6	107	5	81	4	65	8	52	3	35	1	9
105		104		79		64		51		34	
7	103	6	78	9	63	10	49	11	33	12	8
101		100		76		62		48		32	
18	98	17	75	16	61	15	47	14	30	13	7
96		94		74		59		45		29	
19	94	20	73	21	58	22	44	23	28	24	6
91		90		72		57		42		26	
30	88	29	70	28	56	27	40	26	24	25	4
86		84		69		56		39		23	
31	82	30	67	33	54	34	37	35	21	26	3
19		17		16		15		13		10	

Meanders, page 112 to 115

DATE DIAGRAM, T.27 S., R.21 E.

8-8-27	8-10-27	8-10-27	8-13-27	8-15-27	8-13-27
6	5	4	3	2	1
8-8-27	8-10-27	8-11-27	8-18-27	8-19-27	8-13-27
7	8	9	10	11	12
8-5-27	8-4-27	8-12-27	8-14-27	8-16-27	8-16-27
18	17	16	15	14	13
8-4-27	8-3-27	8-3-27	8-13-27	8-13-27	8-12-27
19	20	21	22	23	24
8-2-27	8-2-27	8-2-27	8-5-27	8-5-27	8-10-27
30	29	28	27	26	25
7-30-27	8-1-27	8-1-27	8-9-27	8-9-27	8-1-27
31	32	33	34	35	36
10-8-26	10-7-26	10-7-26	10-7-26	10-6-26	10-5-26

10-6-26

All lines colored in black were surveyed by Chas. F.

Moore, U. S. Surveyor.

All lines colored in red were surveyed by Robert C. Yundt

U. S. Surveyor.

The meanders of the Colorado River were run by Carl S.

Swanholm, U.S. Cadastral Engineer, during the period

from September 2 to November 9, 1927.

To their family and community for their service.

and to the state and nation which they have served.

T. 27 S., R. 20 E.

Survey commenced July 29, 1926 and executed with Buff and Buff transits Nos. 9220, 9797, and 9983, used by Chas. F. Moore and Robert C. Yundt, U.S. Surveyors and Carl S. Swanholm, U. S. Cadastral Engineer respectively. All the instruments are equipt with full vertical circles and Smith Solar attachment; unless otherwise specified all azimuth determinations are accomplished with the solar attachment.

The instruments were approved for use in this survey by the District Cadastral Engineer for Utah, conditional upon satisfactory field tests as stated in assignment instructions dated April 1, 1926, and supplemental assignment instructions dated July 19, 1926, May 10, 1927, and August 10, 1927.

This township was surveyed in conjunction with the survey of Tps. 27 and 28 S., R. 20 E. this group; the test of instruments at the commencement and completion of the survey are recorded in the field notes of the survey of the above townships. The instruments were kept in good adjustment during the progress of the survey, the solar meridians being checked by meridians determined by direct observations on the sun, or observations made on Polaris on line in the field during working hours while the survey was in progress.

The meanders of the Colorado River were run by Carl S. Swanholm, U.S. Cadastral Engineer in conjunction with meanders in T. 27 S., R. 20 E. Azimuth determinations were accomplished with the solar attachment and the bearing of the lines thus determined were checked by meridians determined by direct observations on the sun, or observations made on Polaris on line in the field. For preliminary and final test of transit No. 9983 which was used in the survey of the

RETRACEMENT OF THE EAST BOUNDARY OF T 27 S, R 21 E

Chains

meander lines, see survey of T 27 S, R 20 E, Book "C" of this group.

MEASUREMENTS

Unless otherwise specified all measurement are made with Lallie steel ribbon tapes, 5 and 8 chains in length. These tapes were compared with a Lufkin standard steel tape, 1 chain in length, and found to be of the correct length. The measurement are made on the slope, the vertical angles determined, and the slope measurements properly reduced to true horizontal distance. Statement relative to triangulations, see page 117.

RETRACEMENT OF THE EAST BOUNDARY OF T 27S, R 21 E.

Beginning at the true point for the corner of townships 27 and 28 South, Ranges 21 and 22 East, which is 2.47 chains West of the witness corner to said township corner, hereinafter described.

Thence,

N 0°02' W, on retracement line between sections 31 and 36.

40.06 Fall 06 links East of the $\frac{1}{4}$ section corner, which is an iron post, 1 in. in dia., firmly set in the ground, with brass cap marked:

$\frac{1}{4}$ S36 | S31
1911

from which.

A juniper, 16 ins. in dia., marked $\frac{1}{4}$ S31BT, bears S 43°15' E, 280 links distant.

A pinon, 6 ins. in dia., marked $\frac{1}{4}$ S36BT, bears N 60°45' W, 54 links distant.

The bearing of this half mile is, therefore, N 0°07' W,

RETRACEMENT OF THE BASE LINE

Chains

and the distance is 40.06 chains. Thence,

From a point 06 links east of the $\frac{1}{2}$ section corner, continue N $0^{\circ}02'$ W, with continuous measurement.

PC. 18

Run 14 links east of the corner of sections 25, 30, 31 and 36, which is an iron post, 3 ins. in dia., firmly set in the ground and in a mound of stone, with brass cap marked:

T27S	
R21E	R22E
S25	S30
—	
S36	S31
1911	

From which

A juniper, 14 ins. in dia., marked T27S R22E S30 BT bears N $27^{\circ}30'$ E, 98 links distant.

A juniper, 12 ins. in dia., marked T27S R22E S31 BT bears S $7^{\circ}15'$ E, 14 links distant.

A juniper, 10 ins. in dia., marked T27S R21E S36 BT bears S $55^{\circ}00'$ W, 109 links distant.

A ledge, about 4 ft. high, marked X B0 S25, bears N $38^{\circ}00'$ W, 25 links distant.

The bearing of this half mile is, therefore, N $0^{\circ}09'$ W, and the distance 40.12 chains.

There is no change in the topography as recorded in the original survey notes.

From the corner of sections 25, 30, 31 and 36.

N $0^{\circ}02'$ W, or retracement line between sections 25 and 30.

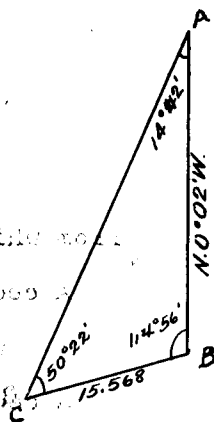
7.45

Top of ledge and the south edge of Hatch Wash canyon over which chaining is impracticable, I triangulate, therefore, as follows:

At point A, on random line to the north, designate the 7.45 chain point as B and from B measure a base line B-C, S $65^{\circ}02'$ W, 15.568 chains. The angles subtended at points A and C, determined by three---

Chains

repetition are 14322' N.158
 and 50°22' respectively.
 088 386
 1101



Distance on line	= 7.46 chs.
Distance by triangulation	= 47.25 "
Distance to N. point triangulation	= 54.71 "
Distance by return measurement	= 5.04 "
	49.67 "

49.67 Fall 8 lks E. of the witness cor. to the $\frac{1}{4}$ sec. cor.,
 which is an iron post, 1 in. in dia., firmly set in
 the ground and mound of stone, with brass cap
 marked

T27S
 R21E | R22E
 S25 | S30
 WC
 1911

from which

A pinon, 9 ins. diam., bears N.84 $\frac{1}{2}$ °E., 69 lks.
 dist., marked W C $\frac{1}{4}$ S 30 B T

A pinon, 10 ins. diam., bears N.40°45'W., 112 lks.
 dist., marked W C $\frac{1}{4}$ S 25 B T

The bearing of this half mile therefore is N.0°08'W.,
 and the distance is 49.67 chs. to the witness cor.
 to the $\frac{1}{4}$ sec. cor. or 40.10 chs. to the true point
 for the $\frac{1}{4}$ sec. cor. which falls on inaccessible
 ground.

From point 8 lks. E. of the witness cor. to the $\frac{1}{4}$ sec.
 cor., continue

N.0°02'W. with continuous measurement.

54.71 Point of triangulation.

80.11 Fall 13 lks. E. of the cor. of secs. 19, 24, 25, and 30,
 which is an iron post, 3 ins. in dia., firmly set
 in the ground, with brass cap marked

RETRACEMENT OF THE MASS BOUNDARY FOR SECTION 21 E.

Chains

enclad

T278
 R21E R22E
S24 S19
 S25 S30
 1911

from which

A cedar, 5 ins. diam., bears N. $57\frac{1}{2}^{\circ}$ E., 130 lks.

dist., marked T 27 S R 22 E S 19 B T

A cedar, 6 ins. diam., bears S. 48° W., 270 lks.

dist., marked T 27 S R 21 E S 20 B T

A cedar, 14 ins. diam., bears N. $38\frac{1}{2}^{\circ}$ W., 107 lks.

dist., marked T 27 S R 21 E S 24 B T

No other accessories to cor.

The bearing of this half mile therefore is N. $0^{\circ}08'$ W.,

and the distance from the witness cor. to the $\frac{1}{4}$ sec.

cor. to the sec. cor. is 30.44 chs.; the distance

from the true cor. point for the $\frac{1}{4}$ sec. cor. to the

sec. cor. is 40.01 chs.

No change in the topography as recorded in the original survey.

From the cor. of secs. 19, 24, 25, and 30.

N. $0^{\circ}02'$ W., on retracement line bet. secs. 19 and 24.

40.02 Fall 8 lks. E. of the $\frac{1}{4}$ sec. cor. which is an iron post

1 in. in dia., firmly set in the ground and mound of stone with brass cap marked

S24 S30

1911

from which

A pinon, 6 ins. diam., bears S. $58^{\circ}45'$ E., 68 lks.

dist., marked $\frac{1}{4}$ S 30 B T

A cedar, 9 ins. diam., bears N. $64^{\circ}45'$ W., 112 lks.

dist., marked $\frac{1}{4}$ S 24 B T

The bearing of this half mile therefore is N. $0^{\circ}09'$ W.,

and the distance is 40.02 chs.

From point 8 lks. E. of the $\frac{1}{4}$ sec. cor., continue

N. $0^{\circ}02'$ W., with continuous measurement.

Chains

Station

80.03 Fall 18 lks. E. of the cor. of secs. 13, 18, 19, and 24, which is an iron post, 3 ins. in dia., firmly set in the ground, with brass cap marked

T27S	
R21E	R22E
S13	S18
S24	S19
1911	

from which

A cedar, 20 ins.diam., bears N.65 $\frac{1}{2}$ °E., 120 lks.

dist., marked T 27 S R 22 E S 18 B T

A pinon, 30 ins.diam., bears S.58 $\frac{1}{2}$ °E., 326 lks.

dist., marked T 27 S R 22 E S 19 B T

A cedar, 6 ins.diam., bears S.36 $\frac{1}{2}$ °W., 241 lks.

dist., marked T 27 S R 21 E S 24 B T

No other accessories at cor.

The bearing of this half mile therefore is N.0°09'W.,

and the distance is 40.03 chs.

No change in the topography as recorded in the original survey.

From the cor. of secs. 13, 18, 19, and 24.

N.0°02'W., on retracement line bet. secs. 13 and 18.

40.03 Fall 9 lks. E. of the $\frac{1}{4}$ sec. cor., which is an iron post, 1 in. in dia., firmly set in the ground and mound of stone with brass cap marked

S13	S18
1911	

from which

A cedar, 6 ins.diam., bears S.39 $\frac{1}{2}$ °E., 20 lks.

dist., marked $\frac{1}{4}$ S 18 B T

A pinon, 8 ins.diam., bears S.64 $\frac{1}{2}$ °W., 184 lks.

dist., marked $\frac{1}{4}$ S 18 B T

The bearing of this half mile therefore is N.0°10'W.,

and the distance is 40.03 chs.

From point 9 lks. E. of the $\frac{1}{4}$ sec. cor. continue

N.0°02'W., with continuous measurement.

RETRACEMENT OF THE EAST BOUNDARY OF T.27 S. R.21 E.

Chains

ended

80.06

Fall 16 lks. E. of the cor. of secs. 7, 12, 13, and 18.

which is an iron post, 3 ins. in dia., firmly set in the ground and mound of stone, with brass cap marked

T27S	
R21E	R22E
S12	S7
S13 S18	
1911	

from which

A pinon, 14 ins. diam., bears N. $64\frac{1}{2}^{\circ}$ E., 290 lks.

dist., marked T 27 S R 22 E S 7 B T

A pinon, 8 ins. diam., bears S. $27^{\circ}45'$ E., 111 lks.

dist., marked T 27 S R 22 E S 18 B T

A cedar, 18 ins. diam., bears S. 57° W., 70 lks.

dist., marked T 27 S R 21 E S 13 B T

A pinon, 4 ins. diam., bears N. $84\frac{1}{2}^{\circ}$ W., 109 lks.

dist., marked T 27 S R 21 E S 12 B T

The bearing of this half mile therefore is N. $0^{\circ}07'$ W.,

and the distance is 40.03 chs.

No change in topography as recorded in the original survey

From the cor. of secs. 7, 12, 13, and 18.

N. $0^{\circ}02'$ W., on retracement line bet. secs. 7 and 12.

40.07

Fall 4 lks. E. of the $\frac{1}{4}$ sec. cor., which is an iron post, 1 in. in dia., firmly set in the ground and mound of stone with brass cap marked

$\frac{1}{4}$ S12	S7
-------------------	----

1911

From which

A pinon, 5 ins. diam., bears N. $42^{\circ}45'$ E., 36 lks.

dist., marked $\frac{1}{4}$ S 7 B T

A pinon, 6 ins. diam., bears N. $24\frac{1}{2}^{\circ}$ W., 48 lks.

dist., marked $\frac{1}{4}$ S 12 B T

The bearing of this half mile therefore is N. $0^{\circ}05'$ W.,

and the distance is 40.07 chs.

RETRACEMENT OF THE EAST BOUNDARY OF T.27 S., R.21 E.

Chains

From point 4 lks. E. of the $\frac{1}{4}$ sec. cor., continue
N.0°02'W., with continuous measurement.

80.17 Fall 12 lks. E. of the cor. of secs. 1, 6, 7, and 12,
which is an iron post, 3 ins. in dia., firmly set in
the ground and mound of stone with brass cap marked

T27S
R21E R22E
S1 S6
S12 S7
1911

from which

A pinon, 8 ins.diam., bears N.78°E., 63 lks.
dist., marked T 27 S R 22 E S 6 B T

A pinon, 6 ins.diam., bears S.88°E., 26 lks.
dist., marked T 27 S R 22 E S 7 B T

A pinon, 10 ins.diam., bears S.12 $\frac{1}{2}$ °W., 54 lks.
dist., marked T 27 S R 21 E S 12 B T

A pinon, 8 ins.diam., bears N.20°W., 80 lks.
dist., marked T 27 S R 21 E S 1 B T

The bearing of this half mile therefore is N.0°09'W.,
and the distance is 40.10 chs.

No change in topography as recorded in the original
survey.

From the cor. of secs. 1, 6, 7, and 12.

N.0°02'W., on retracement line bet. secs. 1 and 6.

40.03 Fall 1 lk. E. of the $\frac{1}{4}$ sec. cor., which is an iron
post, 1 in. in dia., firmly set in the ground,
with brass cap marked

S1 S6
1911

from which

A cedar, 9 ins.diam., bears N.18°E., 130 lks.
dist., marked $\frac{1}{4}$ S 6 B T

A cedar, 6 ins.diam., bears E.86°W., 219 lks.
dist., marked $\frac{1}{4}$ S 1 B T

RETRACEMENT OF THE EAST BOUNDARY OF T.27 S., R.21 E.

Chains

anilag

The bearing of this half mile therefore is $N.0^{\circ}03'W.$, and the distance is 46.63 chs.

From point 1 lk. E. of the $\frac{1}{4}$ sec. cor., continue $N.0^{\circ}02'W.$, with continuous measurement.

77.74 Fall 2 lks. E. of the witness cor. to the cor. of T.27 S., Rs. 21 and 22 E., which is an iron post, 3 ins. in dia., firmly set in the ground and mound of stone, with brass cap marked

T268

R21E R22E
WC

S1 S6

T27S
1911

from which

A sandstone boulder, 20x12x8 ft. showing, marked

X B0 S6, bears $S.64^{\circ}E.$, 146 lks. distant.

A sandstone boulder, 10x8x4 ft. showing, marked

X B0 S1, bears $S.32^{\circ}W.$, 77 lks. distant.

The bearing of the line bet. the $\frac{1}{4}$ sec. cor. and this witness cor. therefore is $N.0^{\circ}03'W.$, and the distance is 37.71 chs.

82.14 The true point for the cor. of T.27 S., Rs.21 and 22 E. on inaccessible ledge, bears West 02 links.

SOUTH BOUNDARY OF T.27 S., R.21 E.

From the witness cor. to the cor. of Tps. 27 and 28 S., Rs. 21 and 22 E., which is an iron post, 3 ins. in dia., firmly set in the ground and mound of stone, with brass cap marked

T27S

R21E R22E
S3E S31

WC S1 S6
R21E R22E

T28S
1911

from which

30
SOUTH BOUNDARY OF T. 27 S., R. 21 E.

Chains

A cedar, 8 ins. diam., bears N. $73\frac{1}{2}^{\circ}$ E., 73 lks.

dist., marked WC T27S R22E S31 BT.

A cedar, 8 ins. diam., bears S. 24° E., 18 lks.

dist., marked WC T28S R22E S6 BT

Sloping sandstone ledge, 100 ft. high, marked

X BO S1, bears S. $11\frac{1}{2}^{\circ}$ W., 30 lks. distant.

Same ledge, marked X BO S3, bears N. $39\frac{1}{2}^{\circ}$ W.,

8 lks. distant.

Thence

West.

2.47 True cor. point for cor. of Tps. 27 and 28 S., Rs. 21 and 22 E. which is a cross (X) cut in sloping sandstone ledge.

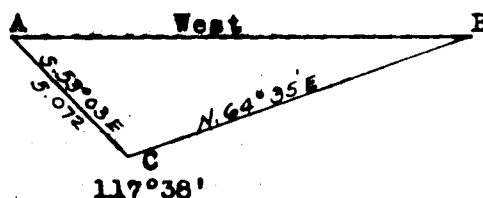
Thence from true cor. point

West, bet. secs. 1 and 36, with new measurement

Ascend 150 ft. over rough broken bench land through short undergrowth.

10.00 Point of sandstone spur, projects NE.; the line west follows a rugged NW. slope over which it is impracticable to chain; I therefore triangulate as follows:

Set flag "A" on line west, and erect flag "B" at this point; then, from "A" measure base line "AC", S. $53^{\circ}03'$ E., 5.072 chs. to



"C". The line "CB" bears N. $64^{\circ}35'$ E. and the angle at "C" is $117^{\circ}38'$. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 10.47 chs.

20.89 The line to the west passes over ledges bearing N. and S. and across the head of a draw; chaining is impracticable, I therefore triangulate as follows:

SOUTH BOUNDARY OF T.27 S., R.32 E.

chains

continued

Set point "A" on line

West and erect flag

"B" at this point;

then, from "A"

measure base line

"AC", N. 8°23'E.,

7.599 chs. distant.

The line "CB" bears S. 65°34'E., and the angle subtended at "C" is 73°57'. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 17.66 chs.

39.20

Spur, projects N., also top of ledge, 120 ft. high, bears N. and S.

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 24 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

S36

S1

1926

Deposit a sandstone, 10x8x6 ins. marked with a cross (X) on one face at base of monument.

The line west passes over sandstone rims which makes chaining impracticable; therefore I return to my point at 38.55 chs. in order to obtain a suitable base and triangulate as follows:

Set flag "A" on line

west; then measure

base line N. 8°23'E.

7.599 chs. to point

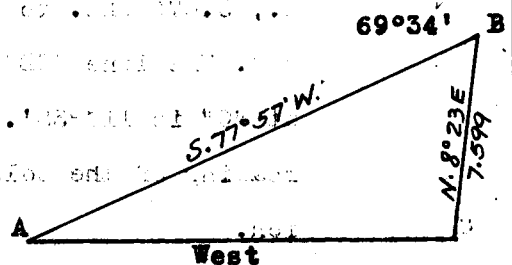
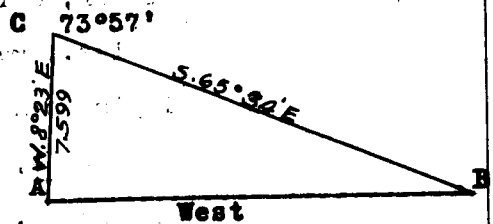
"B". The line "BA"

bears S. 77°57'W. and

the angle subtended at

"B" is 69°34'. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 34.11 chs.



SOUTH BOUNDARY OF T.27 S., R.21 E.

Chains

- the approximate topography from the $\frac{1}{4}$ sec. cor. is:
- 51.00 Draw, 150 ft. below $\frac{1}{4}$ sec. cor., drains N.; ascend over ledges.
- 62.50 Small spur, projects N.
- 69.00 Small draw, drains N.; ascend over ledges.
- 72.66 Point of triangulation on brink of ledges on mesa, bears N. and S.; thence through dense scrub timber.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for cor. of secs. 1, 2, 35, and 36, with brass cap marked
- | | |
|------|------|
| T27S | R21E |
| 835 | 836 |
| 62 | 81 |
| T28S | |
| 1926 | |
- from which
- A juniper, 4 ins. diam., bears N. $72\frac{1}{2}^{\circ}$ E., 47 lks. dist., marked BT
- A pinon, 6 ins. diam., bears S. $41\frac{1}{2}^{\circ}$ E., 36 lks. dist., marked T 28 S R 21 E S 1 B T
- A pinon, 8 ins. diam., bears S. $31^{\circ}45'$ W., 60 lks. dist., marked T 28 S R 21 E S 2 B T
- A pinon, 12 ins. diam., bears N. $65\frac{1}{2}^{\circ}$ W., 86 lks. dist., marked T 27 S R 21 E S 35 B T
- Land, rough, rocky bench and mesa, broken by ledges and cut by canyons; general N. exposure and drainage.
- Soil, shallow sand and sandstone rock; 4th. rate.
- Timber, dense juniper and pinon on W. 7.34 chs.
- Undergrowth, shadscale and yellow top.
-
- West, bet. secs. 2 and 35,
- Over rough broken bench land through medium growth of timber and short undergrowth.
- 4.00 Top of rise, bears N. and S.; gradually descend.
- 8.75 Top of ledge, 50 ft. high, bears N. and S.; begin steep descent over W. slope.
- 24.20 Ledge, about 200 ft. high, bears N. and S.

SOUTH BOUNDARY OF T-22 S. R-21 E.

Chains

- 33.80 Draw, 515 ft. below sec. cor., drains N.; ascend E. slope 65 ft. to
- 40.00 On surface rock, mark a cross (X) over which
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked
- | | | |
|---------------|------------|--|
| | <u>835</u> | |
| $\frac{1}{4}$ | | |
| | S2 | |
| | 1926 | |
- No suitable bearing trees available.
Continue abrupt ascent over E. slope.
- 50.00 Spur, 330 ft. above $\frac{1}{4}$ sec. cor., projects N.; descend abruptly over W. slope.
- 64.65 Base of steep descent, bears N. and S.; gradually descend.
- 73.00 Draw, 445 ft. below spur, drains N.; ascend E. slope 100 ft. to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 24 ins. in a mound of stone for cor. of secs. 2, 3, 34, and 35, with brass cap marked

T27S	R21E
<u>S34</u>	<u>S35</u>
S3	S2
T28S	
1926	

from which

A juniper 4 ins.diam., bears N.5°E., 96 lks.

dist., marked BT

A pinon, 5 ins.diam., bears S.39°E., 130 lks.

dist., marked T 28 S R 21 E S 2 BT

A juniper, 12 ins.diam., bears S.47°W., 30 lks.

dist., marked T 28 S R 21 E S 3 B T

A pinon, 4 ins.diam., bears N.19½°W., 95 lks.

dist., marked BT

Land, rough and broken bench; general N. exposure and drainage.

Soil, shallow sand and limestone rock, 4th. rate.

Timber, medium to scattered growth of scrub juniper and

SOUTH BOUNDARY OF T. 27 S., R. 21 E.

Chains

- 8.30 **Undergrowth, shadscale, yellow top, mountain rush and black brush.**
- West, bet. secs. 3 and 34.**
- Ascend abruptly E., slope over rough broken bench land through short undergrowth and scrub timber.**
- 8.30 **Spur, 250 ft. above sec. cor., projects N.; gradually descend W. slope.**
- 36.00 **Wash, 30 lks. wide, 4 ft. deep, in small draw, drains NE.; thence over rolling bench.**
- 40.00 **Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked**
- S34
S3
1926
- Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. No suitable bearing trees available.**
- 51.00 **Draw, drains NW.**
- 54.45 **Draw, drains NE.**
- 58.00 **Draw, drains NW.**
- 65.00 **Wash, 20 lks. wide, 3 ft. deep, drains NE.**
- 74.70 **Line strikes the south end of a sandstone butte which extends N. about 10 chs. distant.**
- 80.00 **Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground on solid rock and 10 ins. in a mound of stone for cor. of secs. 3, 4, 33, and 34, with brass cap marked**

T27S	R21E
S33	S34

S4	S3
----	----

T28S
1926

from which

A juniper, 12 ins. diam., bears N. 54° 00' E., 76

lks. dist., marked T 27 S R 21 E S 34 B T

SOUTH BOUNDARY OF T.27 S., R.21 E.

Chains

antado

A juniper, 12 ins.diam., bears S.46°45'W., 236 lks.

dist., marked T 28 S R 21 E S 4 B T

A juniper, 6 ins.diam., bears N.46°45'W., 86 lks.

dist., marked T 27 S R 21 E S 33 B T

No other bearing trees available.

Land, rough broken and rolling bench; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th rate.

Timber, scattered patches of scrub juniper and pinon.

Undergrowth, black brush, manzanita, shadscale and yellow top.

West, bet. secs. 4 and 33.

Over rolling bench land through short undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S33

S4

1926

Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

75.35 Low ridge, bears N. and SW.; enter scrub timber, bears N. and S. Descend 30 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground on solid rock and 6 ins. in a mound of stone for cor. of secs. 4, 5, 32, and 33, with brass cap marked

T27S

R21E

S32

S33

S5

S4

T28S

1926

from which

A pinon, 3 ins.diam., bears N.33 $\frac{1}{2}$ °E., 79 lks.

dist., marked BT

A juniper, 6 ins.diam., bears S.30°45'E., 128 lks.

dist., marked T 28 S R 21 E S 4 B T

A juniper, 6 ins.diam., bears S.10 $\frac{1}{2}$ °W., 28 lks.

South boundary of T.27 S., R.21 E.

Chains

dist., marked T 28 S R 21 E S 5 B T

A pinon, 6 ins. diam., bears N. $72^{\circ}45'W.$, 88 lks.

dist., marked T 27 S R 21 E S 32 B T

Land, rolling and rocky bench; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, scrub juniper and pinon on west portion of mile.

Undergrowth, black brush and bunch grass.

West, bet. secs. 5 and 32.

High ledge rims and points projecting N. from Hatch point to the west make chaining impossible; I therefore triangulate as follows:

Set point "A" on

line west, and

being unable to

secure a base at

this point return

to a point 4.65 chs.

east of the cor. of

secs. 4, 5, 32, and 33

from which point I measure a base line N. $39^{\circ}15'W.$,

23.027 chs. (double chained) to point "B". The line

"BA" bears S. $54^{\circ}13'W.$ and the angles subtended at

"A" and "B" determined by repetition are $35^{\circ}47'$ and

$93^{\circ}28'$ respectively.

Distance by triangulation

Subtract

= 39.31 chs.

4.65 "

34.66 "

The approximate topography from the cor. of secs. 4, 5,

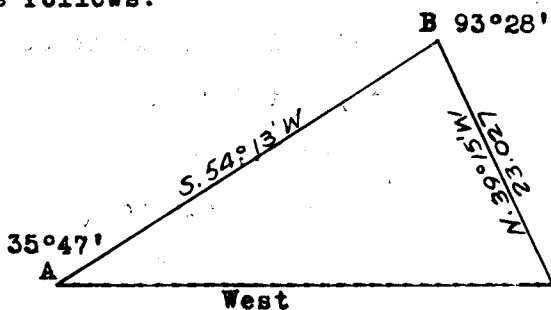
32 and 33 to the west is:

8.00 Top of high ledge and edge of Hatch Point, bears N. and SW.; thence over high sandstone ledge points projecting N.

34.00 Sharp spur, projects N. about 5 chs. distant.

34.66 Point of triangulation.

34.69 Top of ledge rim and W. rim of spur, bears N. and S.



SOUTH BOUNDARY OF T. 22 S. R. 21 E.

continued

Chains

Point for $\frac{1}{4}$ sec. cor. will fall on inaccessible ledges; therefore, at this point,

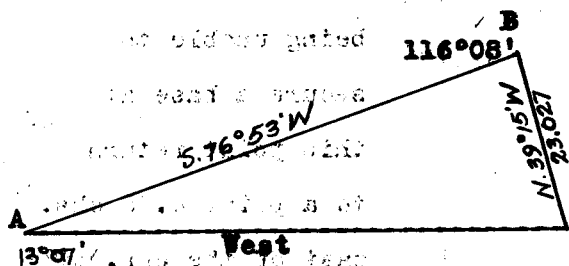
On surface rock, mark a cross (X) over which Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

S32
WC
S5
1926

40.00 Point for $\frac{1}{4}$ sec. cor. falls on inaccessible sandstone ledge facing W.

The line west strikes high ledge rim of canyon over which I cannot chain; to determine distance ahead on line I triangulate as follows:

Set point "A" on line W., and being unable to secure a base line at this point I return to my point 4.65



chs. east of the cor. of secs. 4, 5, 32, and 33 from which point, point "A" bears west. Measure base line N. 39° 15' W., 23.027 chs. to point "B". The line "BA" bears S. 76° 53' W. and the angles at "A" and "B" determined by repetition are 13° 07' and 116° 08' respectively.

Distance by triangulation	91.10 chs.
Subtract	4.65 "
Distance from cor. secs. 4, 5, 32 and 33 to "A"	86.45 "
Distance by return measurement	6.45 "
	<u>80.00</u>

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 8 ins. in the ground on solid rock and 24 ins. in a mound of stone for cor. of secs. 5, 6, 31, and 32, with brass cap marked

80.00

80.00

SOUTH BOUNDARY OF T. 27 S., R. 21 E.

Chains

T27S R21E

Section 33 to 34

4.50 W. 801

" 45.30

" 50.30

86 85

T28S

1924

from which

A juniper, 6 ins. diam., bears N. 64° E., 223 lks.

dist., marked T 27 S R 21 E S 32 B T

A juniper, 5 ins. diam., bears S. 27° E., 61 lks.

dist., marked T 28 S R 21 E S 5 B T

A juniper, 4 ins. diam., bears N. 81° W., 155 lks.

dist., marked T 27 S R 21 E S 31 B T

No other bearing trees available.

Land, rocky mesa and rough breaks and rims of canyons;

general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, scattered juniper and pinon on portions of mile.

Undergrowth, shadscale, mountain rush and black brush.

West, bet. secs. 6 and 31.

Over rough broken land through scattered timber and

short undergrowth.

.50 Bottom of canyon, drains NE.; ascend.

6.45 Point of triangulation; line to the west ascends high

ledge rim of mesa up which I cannot chain. To deter-

mine distance to top I triangulate as follows:

Set flag "A" on line

W. and being unable

to secure a base line

at this point return

to my point 4.65

chs. east of the

cor. of secs. 4, 5,

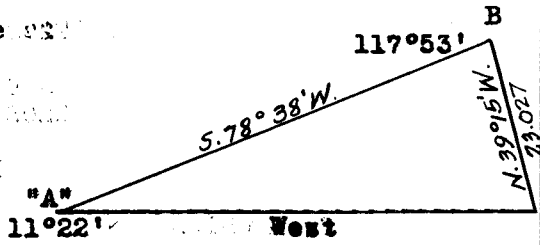
32 and 33 from which point flag "A" bears West.

Measure base line N. 39° 15' W., 23.027 chs. to point "B".

The line "BA" bears S. 75° 38' W. and the angles at "A"

and "B" are 11° 22' and 117° 53' respectively. All

bearings taken by direct reading of the solar and



EAST BOUNDARY OF T.27 S., R.20 E.

Chains

an 1840

angles determined by deflection.

Distance by triangulation = 103.27 chs.
 Subtract 84.65 "
 Distance to "A" on line bet. secs. 6 & 31 = 18.62 "

18.62 Top of high ledge and rim of Hatch Butte, bears NW. and SE.; thence even broken mesa through scrub timber and short undergrowth.

40.00 On surface rock, mark a cross (X) over which Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for 1 sec. cor., with brass cap marked

S31

S6
1926

No suitable bearing trees available.

61.40 Top of sandstone rim, 90 ft. high, bears N. and SE.

76.42 Intersect east boundary of T.27 S., R.20 E., 5.33 chs.

north of the cor. of Tps. 27 and 28 S., R. 20 E.

which is an iron post, 2 ins. in dia., firmly set, and marked and witnessed as described in the field

notes of the survey of T.28 S., R.20 E. book "B"

this group.

At point of intersection,

Set an iron post, 3 ft. long, 3 ins. in dia., 6 ins.

in the ground on solid rock and 24 ins. in a mound of

stone for closing cor. of Tps. 27 and 28 S., R.21 E.,

with brass cap marked

	T27S	
T27S	R21E	CC
	S31	
S36	S6	
R20E	T28S	

1926

from which

A pinon, 6 ins. diam., bears N. 14° E., 41 lks.

dist., marked T 27 S R 21 E S31 CC BT

A pinon, 8 ins. diam., bears S. 14° 45' E., 9 lks.

dist., marked T28S R21E S6 CC BT

Land, rough, broken mesa and high ledge breaks; general

Subdivision of T.27 S., R.21 E.

Chains

antico

36. exposure and drainage.
 36.11 shallow sand and sandstone rock; 4th. rate.
 36.12 timber, scattered scrub juniper and pinon.

Undergrowth, black brush, mountain rush, shadscale and yellow top.

SUBDIVISION OF T.27 S., R.21 E.

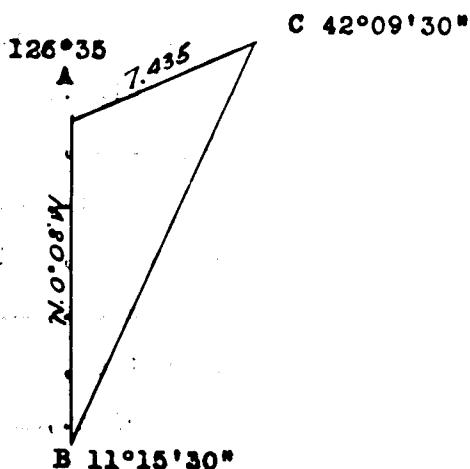
From the cor. of sects. 1, 2, 35, and 36 on the S. bdy. of the Tp. heretofore described:

N.0°08'W., bet. sects. 35 and 36; parallel to the mean course of the E. bdy. of the Tp.

Over nearly level top of mesa through medium growth of scrub timber and short undergrowth.

19.96 Top of ledge and rim of mesa, bears NE. and SW.; the line north passes over precipitous slopes which make chaining impracticable; I therefore triangulate as follows:

Set point "A" on line to the E., and erect flag "B" at this point; then, from "A" with the telescope directed to "B" deflect an angle of 126°35' to the left and measure base line



7.435 chs. to point "C". The angles subtended at "B" and "C" determined by repetition are 11°15'30" and 42°09'30" respectively.

SUBDIVISION ON T. 22 S., R. 21 E.

Chains

unlaid

Distance on line to point "B" = 19.96 chs.
 Distance by triangulation = 25.56 "
 Distance on line to point "A" = 45.52 "
 Distance by return measurement = 5.52 "
 40.00

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S35 | S36

1927

No suitable bearing trees available.

45.52 Point of triangulation, 400 ft. below rim of mesa; thence over broken ground.

64.70 Spur, projects W.; descend over N. slope 190 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for cor. of secs. 25, 26, 35, and 36, with brass cap marked

T27S | R21E
 S26 | S25

S35 | S36
 1927

from which

A pinon, 10 ins. diam., bears N. 38° E., 271 lks.

dist., marked T 27 S R 21 E S 25 B T

A juniper, 6 ins. diam., bears S. 78½° E., 110 lks.

dist., marked T 27 S R 21 E S 36 B T

A juniper, 4 ins. diam., bears S. 83½° W., 265 lks.

dist., marked T 27 S R 21 E S 35 B T

A juniper, 6 ins. diam., bears N. 81½° W., 170 lks.

dist., marked T 27 S R 21 E S 36 B T

Land, rough, rocky benches broken by ledges and cut by

canyons; general N. exposure and drainage

Soil, shallow sand and sandstone rock; sth. mate.

Timber, scattered to medium growth of scrub pinon and juniper.

Undergrowth, shadscale, black brush and yellow top.

IN THE SOUTHERN PART OF SECTION 25, T. 27 S., R. 21 E.
 SUBDIVISION OF T. 27 S., R. 21 E.

Chains	
	East, on a random line bet. secs. 25 and 36.
10.00	Set temp. $\frac{1}{4}$ sec. cor. road 100 ft. S. of the cor.
80.06	Intersect E. hdy. of the Tp. 14 lks. S. of the cor. of secs. 25, 30, 31, and 36 heretofore described.
	Thence
	S. 89° 54' E., on true line bet. secs. 25 and 36.
	Over rough broken bench land through scattered scrub timber and short undergrowth. Along general N. slope.
12.00	Begin gradual descent over W. slope.
26.00	Wash, drains N.; gradually ascend E. slope.
39.50	Low ridge, 75 ft. above wash, bears NE. and SW.; grad- ually descend NW. slope.
40.03	On surface rock, mark a cross (X) over which Set an iron post, $\frac{3}{4}$ ft. long, 1 in. in dia., 30 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\begin{array}{r} \frac{1}{4} \quad \frac{S25}{S36} \\ 1927 \end{array}$
	from which
	A juniper, 8 ins. diam., bears S. 36° 45' E., 229 lks. dist., marked $\frac{1}{4}$ S 36 B T
	A juniper, 6 ins. diam., bears N. 58 $\frac{1}{2}$ ° W., 98 lks. dist., marked $\frac{1}{4}$ S 25 B T
59.00	Bottom of draw course N.E.
62.50	Begin steep ascent over NE. slope.
70.00	Spur, 135 ft. above $\frac{1}{4}$ sec. cor., projects NE.; descend 200 ft. to
80.06	The cor. of secs. 25, 26, 35, and 36. Land, rough, rocky and broken bench; general N. exposure and drainage. Soil, shallow sand and sandstone rock; 4th. rate. Timber, scattered juniper and pinon. Undergrowth, black brush, mountain rush and sagebrush.

SUBDIVISION OF T.27 S., R.21 E.

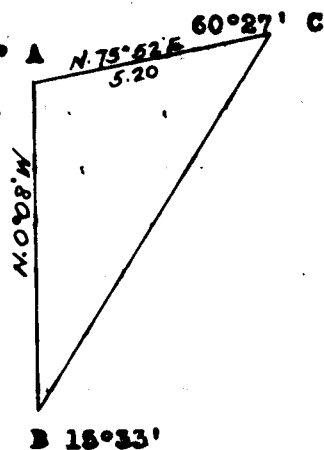
Chains

N.0°08'W., bet. sec. 25 and 26.

Descend NW. slope over broken bench land through scattered timber and short undergrowth.

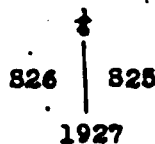
26.63 Top of high ledge and rim of bench, leave timber, bears NE. and SW. The line N. crosses Trough Springs Canyon over which chaining is impracticable; I therefore triangulate as follows:

Set point "A" on line to the north and erect flag "B" at this point; then from "A" measure base line "AC", N.75°52'E., 5.20 chs. distant. The angles subtended at "B" and "C" are found by repetition to be 15°33' and 60°27' respectively.



Distance on line to point "B"	= 26.63 chs.
Distance by triangulation	= 16.87 "
Distance by line to point "A"	= 43.50 "
Distance by return measurement	= 3.50 "
	40.00 "

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked



Deposit a sandstone, 6x4x4 ins., marked with a cross (X) on one face at base of monument.

Cor. stands on NW. slope near bottom of Trough Springs Canyon.

42.50 Wash, 50 lks. wide, 3 ft. deep, in bottom of Trough Springs Canyon, 400 ft. below rim of bench, drains NE.

SUMMARY OF T. ST. B., R. 21 E.

Chains

43.50

Traff bears NE. and SW.; point of triangulation.

The line north ascends high ledge rim of bench up which

I cannot chain; therefore triangulate as follows:

Designate this point "A"

and set point "B" on

line to the north; then

Measure base line "AC"

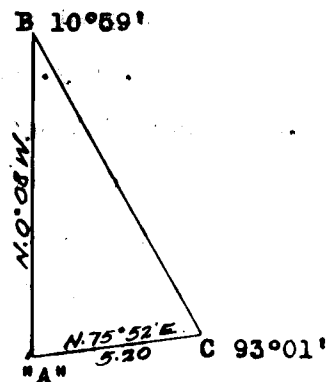
N. 75° 52' E., 5.20 chs. dist.

The angles subtended at "B"

and "C" determined by

repetition are 10° 59' and

93° 01' respectively.



Distance by triangulation = 27.26 chs.

70.76

Point of triangulation and top of ledge and rim of

bench, 750 ft. above canyon, bears NE. and SW.;

thence over broken top of bench through scrub timber.

80.00

On surface rock; mark a cross (X), over which

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.

in a large mound of stone for cor. of secs. 23, 24, 25,

and 26, with brass cap marked

T27S	R21E
S23	S24
S26	S25
1927	

from which

A pinon, 6 ins. diam., bears N. 74½° E., 160 lks.

dist., marked T 27 S R 21 E S 24 B T

A pinon, 8 ins. diam., bears S. 10½° E., 65 lks.

dist., marked T 27 S R 21 E S 25 B T

A pinon, 3 ins. diam., bears S. 61° 45' W., 15 lks.

dist., marked BT

A pinon, 6 ins. diam., bears N. 42° 45' W., 130 lks.

dist., marked T 27 S R 21 E S 23 B T

Land, broken and rocky bench, rimmed with ledges and

cut by deep canyons; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

SUBDIVISION OF R. 25 A. & R. 21 E.

Chains

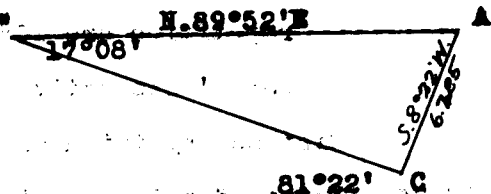
marked

Timber, pine and juniper on top of benches. 00.24
Undergrowth, black brush and mountain rush.

N. 89° 52' E., on a random line bet. secs. 24 and 25 for
signal at the cor. of secs. 19, 24, 25, and 30 on the
E. bdy. of the Tp.

3.20 Top of ledge and rim of bench; precipitous descent over
ledges down which I cannot chain, I therefore
triangulate as follows:

Set point "A" on line
to the east and
erect flag "B" at
this point. Then,
with the transit over
"A" and the telescope
directed to "B" deflect an angle of 81° 30' to the
left and measure base line S. 8° 22' W., 6.725 chs. to
point "C". The angles subtended at "B" and "C" are
17° 08' and 81° 22' respectively. All bearings taken
by direct reading of the solar and angles checked
by deflection.

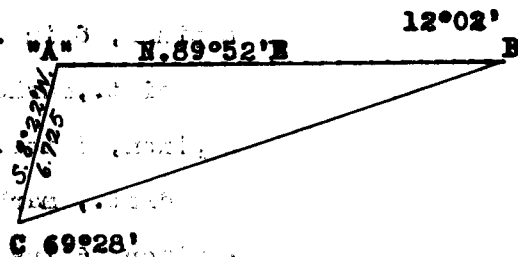


Distance by triangulation = 22.57 chs.

40.00 Set temp. 1/4 sec. cor.

The line east ascends breaks of canyon up which it is
impracticable to chain. I therefore triangulate as
follows:

Return to my point.
at 25.37 chs. on
random line which
I designate "A" and
set flag "B" on
random line to the east; base line "AC" bears S. 8° 22'
W., 6.725 chs. and the angles subtended at "B" and "C"
are 12° 02' and 69° 28' respectively. All bearings
taken by direct reading of the solar and angles



SUBDIVISION OF T. 27 S., R. 21 W.

Chains	<p>checked by deflection.</p> <p>Distance by triangulation = 30.21 chs.</p>
80.06	<p>Intersect E. bay. of the Tp. at the cor. of secs. 19, 24, 25 and 30 heretofore described.</p> <p>Thence</p> <p>S. 89° 52' W., on true line bet. secs. 24 and 25.</p> <p>Over nearly level bench through scattered timber and short undergrowth.</p>
24.16	<p>Top of ledge and rim of Cane Springs Canyon, bears NW. and SE. Thence by triangulation.</p>
36.00	<p>Approximate distance to E. side of bottom of Cane Springs Canyon.</p>
40.03	<p>Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked</p> <div style="text-align: center;"> <p>S24</p> <hr style="width: 50px; margin: 0 auto;"/> <p>S25</p> <p>1927</p> </div> <p>No suitable bearing trees available; deposit a sandstone 5x5x4 ins. marked with a cross "X" on one face at base of monument.</p> <p>Thence across bottom of Cane Springs Canyon.</p>
48.90	<p>Right bank of Cane Springs Wash, bears N. and S.</p>
51.40	<p>Bottom of wash and stream, 20 lks. wide, 1 ft. deep, (flood water), course N., 650 ft. below E. rim of canyon.</p>
53.30	<p>Left bank of wash, bears N. and S.</p>
54.29	<p>Point of triangulation at base of high ledges and precipitous E. break of canyon.</p>
55.85	<p>Trail, bears N. and S.</p>
76.86	<p>Point of triangulation on top of ledge and rim of canyon, 1000 ft. above canyon bottom, bears N. and S.; thence over bench.</p>
80.06	<p>The cor. of secs. 23, 24, 25, and 26.</p> <p>Land, rolling benches cut by deep canyon; general NW. exposure and drainage.</p>

SUBDIVISION OF T.27N., R.21E., S.30E.

Chains

Soil, shallow sand and sandstone rock.

anilagO

Timber, scattered scrub pinon and juniper.

Undergrowth, black brush, mountain rush and yellow top
on benches and shadscale in canyon.

N.0°08'W., bet. secs. 23 and 24.

Gradually descend over broken bench land through medium
growth of scrub timber and short undergrowth.

20.03

Top of ledge about 300 ft. high and rim (S) of Cane Sp-
rings Canyon, bears NE. and SW. Leave timber.Precipitous descent over ledges into canyon down which
I cannot chain; therefore, I triangulate as follows:

Set point "A" on line

N.0°08'W. and erect

flag "B" at this

point; then from "A"

measure base line "AC"

S.89°52'W., 8.00 chs.

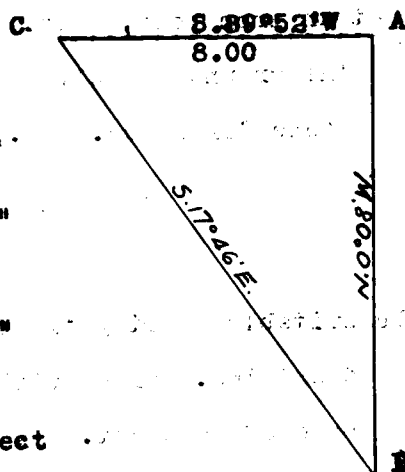
distant. The line "CB"

bears S.17°46'E. All

bearings taken by direct

reading of the solar and

angles checked by deflection.



Distance on line to point "B" = 20.03 chs.

Distance by triangulation = 25.17 ✓ "

Distance to point "A" = 45.20 ✓ "

Distance by return measurement = 5.20 ✓ "

40.00

On surface rock, mark a cross (X) over which

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.

in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass
cap marked

S23 S24

1927

The $\frac{1}{4}$ sec. cor. stands in bottom of Cane Springs Canyon

SUBDIVISION OF T127 S., R. 21 E.

Chains

about 5 chs. north of the south edge of bottom of canyon.

Thence over canyon bottom.

45.20 Point of triangulation.

49.50 Wash, 40 lks. wide, 3 ft. deep, drains NE.

60.20 Left bank of Cane Springs Wash, bears NW. and SE.

64.20 Trail, bears NW. to Moab, Utah and SE. to Hatch Point.

66.80 Stream, 50 lks. wide, 1 ft. deep, (flood water) in bottom of Cane Springs Wash, 1050 ft. below sec. cor., course NW.

69.00 Right bank of wash, bears NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for cor. of secs. 13, 14, 23, and 24, with brass cap marked

T278	R21E
S14	S13
823	824
1927	

Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Land, rough, rocky bench; precipitous talus slopes and rolling canyon bottom; general N. exposure and NW. drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, pinon and juniper on bench.

Undergrowth, mountain rush, black brush, shadscale and sagebrush.

N. 89° 52' E., on a random line bet. secs. 13 and 24.

Line east ascends high ledge rim of canyon up which I cannot chain; therefore triangulate as follows:

Set flag "A" on line

east; then measure

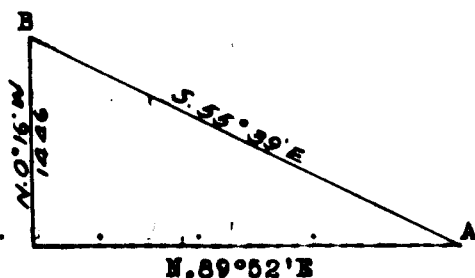
base line N. 0° 16' W.,

14.46 chs. to point

"B". The line "BA"

bears S. 55° 39' E. All

bearings taken by direct reading of the solar and



Subdivision of T. 37 N., R. 21 E.

entlad3

Chains

angles checked by deflection.

Distance by triangulation = 21.02 chs.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.12 Intersect E. bdy. of the Tp. 9 lks. N. of the cor. of secs. 13, 18, 19, and 24 heretofore described.

Thence S. $89^{\circ}56'W.$, on true line bet. secs. 13 and 24.

Ascend over rolling and broken bench land through medium growth of scrub timber and short undergrowth.

8.00 Rise, bears N. and S.; gradually descend W. slope.

40.06 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass sap marked.

S13
 $\frac{1}{4}$
S24
1927

from which

A juniper, 4 ins. diam., bears N. $60^{\circ}45'E.$, 25 lks. dist., marked BT

A juniper, 6 ins. diam., bears S. $20^{\circ}45'E.$, 72 lks. dist., marked $\frac{1}{4}$ S 24 B T

Thence along general S. slope.

52.00 Thence over gentle W. slope.

59.10 Point of triangulation on top ledge rim 250 ft. high and brink of Cane Springs Canyon, bears N. and S.; thence by triangulation over ledges and precipitous talus slopes into canyon. Leave timber.

80.12 The cor. of secs. 13, 14, 23, and 24, 900 ft. below rim. Land, rolling and broken bench and rough breaks of canyon; general W. exposure and NW. drainage. Soil, shallow sand and sandstone rock; 4th. rate. Timber, juniper and pinon on bench. Undergrowth, mountain rush, black brush and shadscale.

entlad3

N. $0^{\circ}08'W.$, bet. secs. 13 and 14

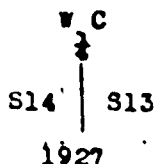
Over nearly level bottom of Cane Springs Canyon through

Chains

short undergrowth.

- 8.00 Leave canyon, bears NW. and SE.; ascend.
 14.50 Spur, 75 ft. above sec. cor., projects SW.; thence along rocky W. slope.
 29.50 Begin ascent of 275 ft. over steep, rocky SW. slope to
 39.90 Point for $\frac{1}{4}$ sec. cor. will fall on large boulder, therefore at this point.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

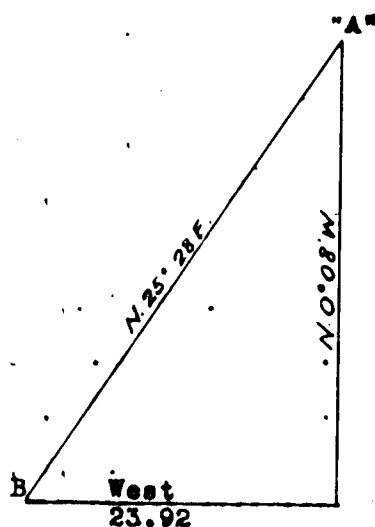


- 40.00 Point for $\frac{1}{4}$ sec. cor. on large boulder.

The line north from this point ascends high ledge rim of Cane Springs Canyon up which I cannot chain; I therefore return to the cor. of secs. 13, 14, 23, and 24 in order to obtain a suitable base line and triangulate as follows:

From sec. cor. set flag

"A" on line north;
 then measure base line west, 23.92 chs. to "B". The line "BA" bears N. 25° 28' E. All bearings taken by direct reading of the solar and angles checked by deflection



Distance by triangulation = 49.98 chs.
 Distance by return measurement = $\frac{.08}{49.90}$

- 49.90 Top of ledge 200 ft. high and rim of Cane Springs Canyon, 950 ft. above sec. cor., bears NW. and SE.; thence

SUBDIVISION OF T. 27 S., R. 21 E.

Chains

continued

over broken bench land through medium growth of timber and short undergrowth.

80.00

On surface rock, mark a cross (X) over which,
Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone for cor. of secs. 11, 12, 13, and 14, with brass cap marked

T27S	R21E
S11	S12
S14	S13
1927	

from which

Scrub juniper, 3 ins. diam., bears N. 23° 45' E.,
153 lks. distant, marked BT

Scrub juniper, 3 ins. diam., bears S. 45° E., 44
lks. dist., marked BT

Scrub juniper, 3 ins. diam., bears S. 15° W., 208
lks. distant, marked BT

Scrub juniper, 3 ins. diam., bears N. 19° W., 160
lks. distant, marked BT

Land, rolling canyon bottom; rough, rocky canyon slopes,
and broken bench land; general W. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon on bench.

Undergrowth, black brush, mountain rush and shadscale.

N. 89° 56' E., on a random line bet. secs. 12 and 13.

40.00

Set temp. $\frac{1}{4}$ sec. cor.

80.12

Intersect E. bdy. of the Tp. 21 lks. S. of the cor. of
secs. 7, 12, 13, and 18 heretofore described,
Thence

S. 89° 47' W., on true line bet. secs. 12 and 13.

Gradually ascend long broken N. slope of rocky bench,
through medium growth of timber and short undergrowth.

SUBDIVISION OF T.27 S., R.21 E.

Chains

24.10 Small draw, drains NE.; ascend NE. slope 220 ft. to
40.06 On surface rock, mark a cross (X), over which
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a large mound of stone for $\frac{1}{4}$ sec. cor., with brass
cap marked

S12

S13

1927

from which

A juniper, 4 ins.diam., bears N.36 $\frac{1}{2}$ °E., 85 lks.
dist., marked BT

A pinon, 8 ins.diam., bears S.45 $\frac{1}{2}$ °W., 45 lks.
dist., marked $\frac{1}{4}$ S 13 B T

41.60 Low spur, projects NE.; gradually descend over broken
ground.

80.12 The cor. of secs. 11, 12, 13, and 14.
Land, rolling and broken bench; general N. exposure and
drainage:
Soil, shallow sand and sandstone rock; 4th. rate.
Timber, juniper and pinon.
Undergrowth, mountain rush and black brush.

N.0°08'W., bet. secs. 11 and 12.

Ascend S. slope over rolling and broken bench land through
medium growth of timber and short undergrowth.

8.50 Low rise; bears NE. and SW.; gradually descend NE. slope
130 ft. to

40.00 On surface rock, mark a cross (X) over which
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass
cap marked

S11

S12

1927

from which

SUBDIVISION OF T.27 S., R.21 E.

Chains

A pinon, 8 ins.diam., bears N.62°E., 37 lks.

dist., marked $\frac{1}{4}$ S 12 B TA pinon, 6 ins.diam., bears N.65 $\frac{1}{2}$ °W., 56 lks.dist., marked $\frac{1}{4}$ S 11 B T

Descend 100' ft. to

70.00 Thence along E., slope.

73.20 Low spur, projects NE.; descend NW. slope 180 ft. to

80.00 On ledge, mark a cross (X) in solid rock, over which

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.

in a large mound of stone for cor. of secs. 1, 2, 11,
and 12, with brass cap marked

T27S	R21E
S2	S1

S11 S12

1927

from which

A pinon, 8 ins.diam., bears N.33°E., 112 lks.

dist., marked T 27 S R 21 E S 1 B T

A pinon, 6 ins.diam., bears S.33°E., 68 lks.

dist., marked T 27 S R 21 E S 12 B T

Land, rolling and broken bench; general N. exposure and
drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon.

Undergrowth, black brush, mountain rush and grass.

N.89°47'E., on a random line bet. secs. 1 and 12.

40.00 Set temp. $\frac{1}{4}$ sec. cor.80.22 Intersect E. bdy. of the Tp. 7 lks. S. of the cor. of secs
1, 6, 7, and 12 heretofore described.

Thence

S.89°44'W., on true line bet. secs. 1 and 12.

Ascend over rough broken bench land through medium
growth of scrub timber and short undergrowth.1.60 Top of ledge and west rim of canyon, bears NW. and SE.;
thence along broken general N. slope

SUMMIT OF MOUNTAIN.

Chains

32.20 Wash, 20 lbs. wide, 3 ft. deep, in bottom of right fork of Hunter Canyon, 190 ft. below ridge, drains N.; ascend 80 ft. to top of ridge.

40.00 On surface creek; mark across (X) over which. Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for a sec. cor., with brass cap marked S 12 B T.

51.00 S 12 B T
51.00 S 12 B T
1927

from which

A pinon, 8 ins. diam., bears S. 74° 45' E., 54 lks. dist., marked $\frac{1}{2}$ S 12 B T

A pinon, 6 ins. diam., bears N. 28½° W., 26 lks. dist., marked $\frac{1}{2}$ S 1 B T

Gradually ascend over NE. slope.

59.20 Low ridge, bears N. and S.; descend.

66.60 Top of ledge and east rim of right fork of Hunter Canyon, bears NE. and SW.

69.50 Wash, 40 lks. wide, 3 ft. deep, in bottom of right fork of Hunter Canyon, 190 ft. below ridge, drains N.; ascend 80 ft. to

76.90 Spur, projects NE.; descend abruptly 80 ft. to

80.22 The cor. of secs. 1, 2, 11, and 12. Land, rolling and broken bench; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon.

Undergrowth, mountain rush and black brush.

N. 0° 08' W., on true line bet. secs. 1 and 2.

Over rough, broken bench land through medium growth of scrub timber and short undergrowth. Descend from

ridge rim into canyon.

7.30 Wash, 50 lbs. wide, 6 ft. deep, in bottom of left fork of Hunter Canyon, 190 ft. below sec. cor., drains NE.; ascend 80 ft. to bottom of wash.

SUBDIVISION OF T27S R21E

aniamd

Chains	
14.50	Top of ledge and N. rim of canyon, bears S 40° E., 28 lks. thence along E. slope of rocky bench
29.10	Point of low spur, projects NE.; gradually descend over N. slope.
35.60	Small draw, drains NE.; continue along broken E. slope.
40.00	On surface rock, mark a cross (X) over which Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked <div style="text-align: center;">$\frac{1}{4}$ S2 | S1 1927</div> from which A pinon, 6 ins. diam., bears S. 40° E., 28 lks. dist., marked $\frac{1}{4}$ S 1 B T A pinon, 6 ins. diam., bears S. 55 $\frac{1}{2}$ ° W., 112 lks. dist., marked $\frac{1}{4}$ S 2 B T
77.70	Begin descent over rocky N. slope.
81.68	Top of ledge and high rim of Hunter Canyon, bears NW. and SE. Point for the closing cor. of secs. 1 and 2 on the N. bdy. of the Tp. will fall on inaccessible wall of canyon; therefore, at this point Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for witness cor. to the closing cor. of secs. 1 and 2, with brass cap marked <div style="text-align: center;">T26S R21E S35 WC S2 | S1 T27S R21E CC 1927</div> from which A juniper, 8 ins. diam., bears S. 40° E., 119 lks. dist., marked NE T26S R21E S2 CC BT A pinon, 6 ins. diam., bears S. 62° 15' E., 300 lks. dist., marked BT only

SUBDIVISION OF T.27 S., R.21 E.

Chains

Being unable to continue north on account of inaccessible ledges, I determine the distance to the north boundary of the Tp. by the following offset.

West, 3.13 chs., then

North, 1.07 chs. to an intersection with the witness cor.

to the $\frac{1}{4}$ sec. cor. S. bdy. sec. 35, T.26 S., R.21 E.

which is an iron post, 1 in. in dia., firmly set in

a large mound of stone, with brass cap marked

± 835

WC

1926

This witness cor. is established 1.60 chs. west of the true cor. point; therefore, by computation I find that the line bet. secs. 1 and 2 intersects the N. bdy. of the Tp. at

82.75

A point 1.53 chs. east of the true point for the $\frac{1}{4}$ sec. cor. S. bdy. sec. 35, T.26 S., R.21 E.

True point for the closing cor. of secs. 1 and 2 falls on inaccessible wall of canyon, cor. point cannot be reached.

Land, rolling and rocky bench broken by ledges and cut by canyons; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, medium growth of juniper and pinon.

Undergrowth, black brush and mountain rush.

From the cor. of secs. 2,3,34, and 35 on the S. bdy. of the Tp. heretofore described.

N.0°08'W., bet. secs. 34 and 35.

Ascend over broken rocky bench land through scattered scrub timber and short undergrowth.

2.50

Ledge, 30 ft. high, bears NE. and SW.

22.10

Top of ledge and rim of broad spur projecting NE., bears NE. and SW.; thence on near level line.

27.90

Top of ledge 90 ft. high and N. rim of spur, bears NE. and SW.; descend 155 ft. to

SUPERVISION OF T-27.5, BL-22.5

Chains

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and 24 ins. iron mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

834 | 835

1927

from which

A juniper, 4 ins. diam., bears N. $76\frac{1}{2}^{\circ}$ E., 120 lks. dist., marked BT

A juniper, 12 ins. diam., bears N. $18\frac{1}{2}^{\circ}$ W., 162 lks. dist., marked $\frac{1}{4}$ S 34 B T

53.10 Begin steep descent over broken N. slope into Trough Springs Canyon, bears NE. and SW.

58.20 Bottom of Trough Springs Canyon and wash, 50 lks. wide, 20 ft. deep, 275 ft. below $\frac{1}{4}$ sec. cor., drains NE.; ascend.

60.60 N. rim of canyon, bears NE. and SW.; gradually ascend SE. slope.

67.60 Trail, bears NE. to Moab and SW. to Hatch Point.

80.00 On surface rock, mark a cross (X) over which

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone for cor. of secs. 26, 27, 34, and 35, with brass cap marked

T278 | R21E

827 | 826

834 | 835

1927

from which

A juniper, 3 ins. diam., bears N. 38° E., 43 lks. dist., marked BT

A juniper, 4 ins. diam., bears S. $65\frac{1}{2}^{\circ}$ E., 42 lks. dist., marked BT

A juniper, 4 ins. diam., bears S. 46° W., 28 lks. dist., marked BT

A juniper, 6 ins. diam., bears N. $34\frac{1}{2}^{\circ}$ W., 45 lks. dist., marked BT

Chains

Land, rough, broken bench land; general NE. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon.

Undergrowth, black brush, mountain rush and sagebrush.

East, on a random line bet. secs. 26 and 35.

27.03 Line east crosses box canyon across which it is impracticable to chain; therefore, I triangulate as follows:

Set point "A" on

line east, and

erect flag "B"

at this point;

then from "A"

measure base line

"AC", south, 6.50 chs.

distant. The line "CB" bears

N.70°21'W. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 18.20 chs.

45.23 E. point of triangulation; unable to reach true point for temp. $\frac{1}{4}$ sec. cor. at 40.00 chs. on account of impassable ledges; therefore leave temp. $\frac{1}{4}$ sec. cor. at this point.

79.96 Intersect N. and S. line 14 lks. S. of the cor. of secs. 25, 26, 35, and 36.

Thence

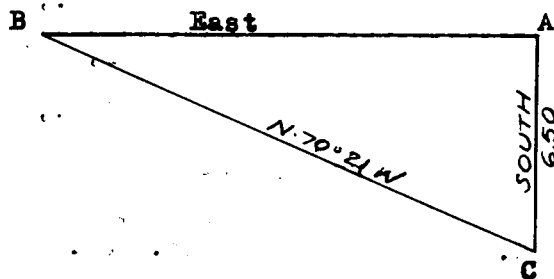
S.89°54'W., on true line bet. secs. 26 and 35.

Gradually descend NW. slope over broken bench land

through scattered scrub timber and short undergrowth.

22.90 Wash, 20 lks. wide, 2 ft. deep, 75 ft. below sec. cor., drains N.; thence over broken ground.

34.73 Point on top of ledge and E. rim of Trough Springs Canyon, bears NE. and SW.; ledge about 150 ft. high. True point for $\frac{1}{4}$ sec. cor. will fall on



SUBDIVISION OF T.27 S. 21 E.

Chains

entia3

inaccessible ground; therefore at this point.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

WC $\frac{1}{4}$ S26
S35
1927

from which

A pinon, 10 ins. diam., bears N. $61\frac{1}{2}^{\circ}$ E., 98 lks.

dist., marked W C $\frac{1}{4}$ S 26 B T

A juniper, 6 ins. diam., bears S. $79\frac{1}{2}^{\circ}$ E., 51 lks.

dist., marked WC $\frac{1}{4}$ S 35 B T

Thence by triangulation across Trough Springs Canyon

noting approximate distances to items of topography.

39.98

Point for $\frac{1}{4}$ sec. cor. on inaccessible ledge.

43.00

Bottom of canyon, about 300 ft. deep, drains NE.

45.00

Trail, bears NE. to Moab, Utah and SW. to Trough Springs and Hatch Point.

50.00

Top of ledge and W. rim of Trough Springs Canyon, bears NE. and SW.; thence over bench land ascending.

59.00

Trough Springs, bears South, 10.00 chs. distant.

79.96

The cor. of secs. 26, 27, 34, and 35, 210 ft. above rim of canyon.

Land, rough, rocky benches broken by ledges and out-

croppings and cut by deep canyons; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon.

Undergrowth, black brush, mountain rush and grass.

N. $0^{\circ}08'$ W., bet. secs. 26 and 27.

Ascend over rough broken bench land through medium growth of scrub timber and short undergrowth.

9.40

Ledge, 10 ft. high, 135 ft. above sec. cor., bears E. and W.; thence on nearly level line.

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in

SURVEY OF T. 27 S., R. 21 E.

Chains

the ground on solid rock and 10 ins. in a mound of
stone for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$

S27. S26

1927

A scrub juniper, 6 ins. diam., bears S. 85 $\frac{1}{2}$ ° E.,

145 lks. dist., marked BT

A scrub juniper, 6 ins. diam., bears S. 45 $\frac{1}{2}$ ° W.,

182 lks. dist., marked BT

Line north ascends a sandstone spur over which I cannot
chain; to determine distance to top, I triangulate as
follows:

Set flag "A" on line to

the N.; then measure

base line, S. 89° 52' W.,

5.088 chs. to point

"B". The line "BA"

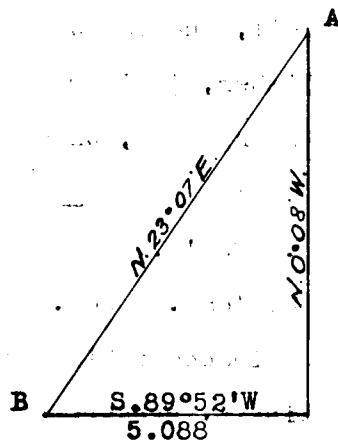
bears N. 23° 07' E. All

bearings taken by

direct reading of

the solar and angles

checked by deflection



Distance by triangulation = 11.84 chs.

51.84 Point of triangulation on sandstone spur, 200 ft. above
 $\frac{1}{4}$ sec. cor., projects E.; descend.

57.00 Wash, drains E.; gradually ascend.

64.00 Low rise, bears E. and W.; descend N. slope 150 ft. to

77.70 Wash, 20 lks. wide, 2 ft. deep, drains NE.; ascend.

80.00 On surface rock, mark a cross (X), over which

Set an iron pest, 3 ft. long, 2 ins. in dia., 30 ins. in

base of stone for cor. of segs. 22, 23, 26,

and 27, with brass cap marked

SUBDIVISION OF T.27 S. R.21 E.

aligned

Chains

T27S R21E
S22 S23

S27 S26

1927

from which

A juniper, 8 ins.diam., bears N.55°E., 286 lks.

dist., marked T 27 S R 21 E S 23 B T

A pinon, 14 ins.diam., bears S.52½°E., 174 lks.

dist., marked T 27 S R 21 E S 26 B T

A juniper, 8 ins.diam., bears S.81°W., 65 lks.

dist., marked T 27 S R 21 E S 27 B T

A pinon, 14 ins.diam., bears N.40½°W., 256 lks.

dist., marked T 27 S R 21 E S 22 B T

Land, rough, broken bench; general NE. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon.

Undergrowth, black brush, mountain rush and grass.

N.89°54'E., on a random line bet. secs. 23 and 26.

39.62

Set temp. ¼ sec. cor.; point at 40.00 chs. falls on inaccessible ground.

Line E. crosses high ledge rims of Hatch Point across which I cannot chain; I therefore return to a point at 34.67 chs. on random line and make the following triangulation:

Set point "A" on line $11^{\circ}18'30''$ $18^{\circ}31'30''$
 to the east and erect
 flag "B" at this
 point; then with the
 transit over "A" and the telescope directed to "B"
 deflect an angle of $18^{\circ}31'30''$ to the left and measure
 base line 18.56 chs. to point "C". The angles sub-
 tended at "B" and "C" are $11^{\circ}18'30''$ and $150^{\circ}10'$
 respectively. All bearings taken by direct reading
 of the solar and angles checked by deflection.

SUBDIVISION OF T. 27 S., R. 21 E.

Chains

Distance on line to "B" = 34.67 chs.
 Distance "BA" by triangulation = 47.09 "
 Distance to "A" = 81.76 "
 Distance by return measurement = 1.84 "
 79.92 "

79.92 Intersect N. and S. line 14 lks. N. of the cor. of secs.
 23, 24, 25, and 26.

Thence

West, on true line bet. secs. 23 and 26.

By triangulation over rough broken bench land through
 medium growth of scrub timber and short undergrowth.

27.00 Approximate distance to rim of Hatch Point, also rim
 of Cane Springs Canyon, bears NE. and SW.; ledge
 about 250 ft. high.

30.00 Approximate distance to bottom of draw drains N.E.
 39.96 Point for $\frac{1}{4}$ sec. cor. falls on ledge wall of canyon and
 on inaccessible ground.

40.15 Rim of Hatch Point, 250 ft. high, bears NW. and SE.;
 continue over broken bench.

40.30 On surface rock, mark a cross (X) over which
 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
 a large mound of stone for witness cor. to the $\frac{1}{4}$
 sec. cor., with brass cap marked

$\frac{1}{4}$ $\frac{S23}{S26}$ WC
 1927

from which

A juniper, 6 ins. diam., bears S. 22° 45' E., 59 lks.
 dist., marked WC $\frac{1}{4}$ S 26 B T

A pinon, 3 ins. diam., bears N. 54° W., 1.32 chs.
 dist., marked BT

45.25 Point of triangulation, bears 6 lks. N.

76.50 Draw, drains NE.; ascend 15 ft. to sec. cor.

79.92 The cor. of secs. 22, 23, 26, and 27.

Land, rough broken bench, sandstone ledges and outcrop-
 pings; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon.

SUBDIVISION OF T.27 S., R.21 E.

arised

Chains

Undergrowth, black brush and mountain rush.

N.0°08'W., bet. secs. 22 and 23.

Over rolling and broken bench land through medium growth of scrub timber and short undergrowth. Gradually ascend SE. slope.

7.00 Thence along steep E. slope,

27.80 Low spur, 40 ft. above sec. cor., projects NE.; gradually descend.

29.00 Begin ascent over gentle SE. slope.

35.00 Leave timber, bears NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

\uparrow
 S22 | S23

1927

Deposit a sandstone, 6x4x4 ins. marked with a cross (X) on one face at base of monument.

61.00 Low sand ridge, bears NE. and SW.; gradually descend.

75.45 Begin steep descent NW. slope.

77.46 Point for cor. of secs. 14, 15, 22 and 23 will fall on inaccessible ground; therefore, at this point

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for witness cor. to the cor. of secs. 14, 15, 22 and 23, with brass cap marked

T27S. R21E

WC

S15 | S14

S22 | S23

1927

77.60 Top of ledge about 300 ft. high and rim of bench on S. side of Cane Springs Canyon, bears NE. and SW.

80.00 Point for cor. of secs. 14, 15, 22, and 23 on inaccessible ground.

Land, rolling and rough broken bench; general E. exposure

Chains

and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon on S. portion of mile.

Undergrowth, black brush, mountain rush and grass.

East, on a random line bet. secs. 14 and 23.

Being unable to project a line east from the true cor.

point for cor. of secs. 14, 15, 22, and 23 on account

of inaccessible ledges, I begin at the witness cor.

to said sec. cor. which is 2.54 chs. S. 0° 08' E. of

the true cor. point; thence

East, 2.59 chs., then

N. 0° 08' W., 1.24 chs. I am unable to reach true random

line at this point; the line east also passes over

in accessible ledges and breaks of canyon down which

I cannot chain; therefore, triangulate as follows:

Set point "A". N. 88° 36' E.

at a point west of the

cor. of secs. 13, 14, 23,

and 24 and erect flag "B"

at this point. Then

from "A" measure a base

line "AC" N. 1° 24' W., 10.00 chs. distant. The line

"CB" bears S. 77° 59' W. All bearings taken, by direct

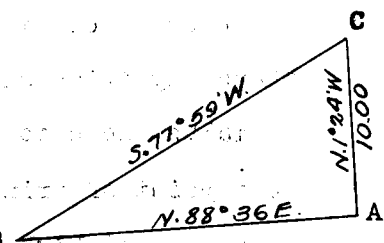
reading of the solar and angles checked by deflection

Distance line "BA" by triangulation = 53.35 chs. or

an easting of 53.34 chs. and northing of 1.30 chs.

2.59 + 53.34 chs. = 55.93 chs. to "A" on true random

line; thence by return measurement 15.92 chs. to



Set temp. 4 sec. cor. and

Intersect the cor. of secs. 13, 14, 23, and 24.

Thence

West, on true line bet. secs. 14 and 23.

Over rolling land in bottom of Cane Springs Canyon

through short undergrowth.

Right bank of Cane Springs Wash, bears NW. and SE.

SUNDAY, APR. 19, 1927.

Chains	
18.10	Stream, 40 lks. wide, 1 ft. deep, (flood water) in bottom of Cane Springs Canyon, course NW.
22.00	Left bank of Cane Springs Wash, bears NW. and SE.
22.90	Trail, bears NW. to Moab, Utah and SE. to Hatch Point. Leave canyon, bears NW. and SE., ascend over steep NE. slope.
23.94	Point of triangulation.
38.70	Top of ledge, about 100 ft. high, bears NW. and SE.
39.93	On steep NE. slope, 240 ft. above canyon. Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\begin{array}{r} S14 \\ \hline S23 \\ 1927 \end{array}$
	Deposit a sandstone, 6x6x2 ins., marked with a cross (X) on one face at base of monument.
	Thence by triangulation over high ledges and precipitous talus slope to
77.27	West point of triangulation, 1.30 chs. S. of true line on top of high ledge and rim of canyon, 1600 ft. above bottom of canyon, bears NW. and SE. Offset, South, 1.24 chs. to point 2.54 chs. S. of true line, then West, 2.59 chs. to intersection with N. and S. line at
79.86	The witness cor. to the cor. of secs. 14, 15, 22, and 23, 2.54 chs. S. $0^{\circ}08'N$ of true cor. point. Impossible to measure N. to true cor. point.
	Land, rolling canyon bottom, precipitous talus slopes and high bench; general N. exposure and NW. drainage. Soil, shallow sand and sandstone rock; 4th rate. No timber. Undergrowth, shadscale, mountain rush and black brush.

SUBDIVISION OF T.27 S., R.21 E.

Chains

N.0°08'W., bet. secs. 14 and 15.

Line north descends over high ledges and precipitous talus slope of Cane Springs Canyon down which I cannot chain; also, I am unable to proceed from the true point for the cor. of secs. 14,15,22, and 23 which falls on inaccessible ground; therefore, I begin at the witness cor. to the cor. of secs. 14,15, 22, and 23 which is 2.54 chs. S.0°08'E. of the true cor. point and proceed as follows:

From witness cor. set flag

"A" on line to the N.,

And erect flag "B" at this point; then, from

"A" measure base line

"AC", S.89°52'W., 9.00

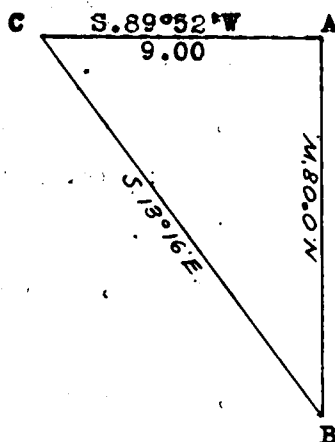
chs. distant. The line

"CB" bears S.13°16'E. All

bearings taken by direct

reading of the solar and angles

checked by deflection.



Distance by triangulation
Subtract

= 38.57 chs.
2.54 "
36.03 "

36.03 N. point of triangulation in bottom of Cane Springs Canyon, 1050 ft. below witness cor.; thence across rolling and broken bottom of canyon.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

†
S15 | S14
1927

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

45.10 Trail, bears NW. to Moab, Utah and SE. to Hatch Point.

64.00 Top of sand rock dome, 30 ft. wide, 30 ft. high and 200 ft. long, bears E. and W.

70.62 Stream, 30 lbs. wide, 2 ft. deep, (flood water) in bottom

SUBDIVISION OF T.27 S., R.21 E.

and 10

Chains

of wash in Cane Springs Canyon, about 25 chs. wide,
course NW.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in
the ground for cor. of secs. 10, 11, 14, and 15, with
brass cap marked

T27S	R21E
S10	S11
S15	S14

1927

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Land, precipitous talus slopes and rolling canyon bottom;
general N. exposure and NW. drainage.

Soil, shallow sand, clay and rocky of sandstone form-
ation; 4th. rate.

No timber.

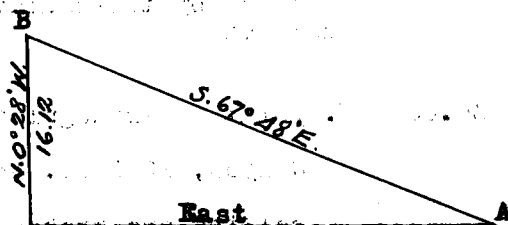
Undergrowth, shadscale, yellow top and grass.

East, on a random line bet. secs. 11 and 14.

The line east ascends high ledges and breaks of canyon
up which I cannot chain; therefore, triangulate as
follows:

Set flag "A" on line

east; then measure
base line N.0°28'W.,
16.12 chs. to point
"B". The line "BA"



bears S.67°48'E. All bearings taken by direct reading
of the solar and angles checked by deflection.

Distance by triangulation = 39.37 chs.

40.00 Set temp. ¼ sec. cor.

79.82 Intersect N. and S. line 23 lks. N. of the cor. of secs.
11, 12, 13, and 14.

Thence

N.89°50'W., on true line bet. secs. 11 and 14.

Ascend over broken bench land through medium growth of
scrub timber and short undergrowth.

SUBDIVISION OF T. 27 S., R. 21 E.

Chains

- 12.00 Low rise, bears NE. and SW.; gradually descend.
- 39.91 On surface rock, mark a cross (X), over which
 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
 in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass
 cap marked
- S11
 $\frac{1}{4}$
 S14
 1927
- from which
- A pinon, 6 ins. diam., bears N. 89° 45' E., 57 lks.
 dist., marked $\frac{1}{4}$ S 11 B T
- A pinon, 8 ins. diam., bears S. 5 $\frac{1}{2}$ ° E., 44 lks.
 dist., marked $\frac{1}{4}$ S 14 B T
- 40.45 Top of ledge about 350 ft. high and E. rim of Cane
 Springs Canyon, bears NW. and SE. Leave timber; thence
 by triangulation over high ledges and precipitous
 talus slopes to
- 79.82 The cor. of secs. 10, 11, 14, and 15, 1100 ft. below rim
 Land, rough, broken bench and precipitous breaks of
 mesa; general W. exposure and NW. drainage.
 Soil, shallow sand, clay and rocky of sandstone formation;
 4th. rate.
- Timber, juniper and pinon on E. 40.45 chs.
 Undergrowth, black brush and mountain rush on bench;
 shadscale and yellow top in canyon.
-
- N. 0° 08' W., bet. secs. 10 and 11.
 Ascend from Cane Springs Canyon over rough broken land
 through short undergrowth.
- 24.00 Begin ascent over steep SW. slope.
- 30.10 Top of ledge, 90 ft. high, bears NW. and SE.
- 40.00 On surface rock, mark a cross (X) over which
 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
 in a large mound of stone for $\frac{1}{4}$ sec. cor., with
 brass cap marked

SUBDIVISION OF T. 27 S., R. 23 E.

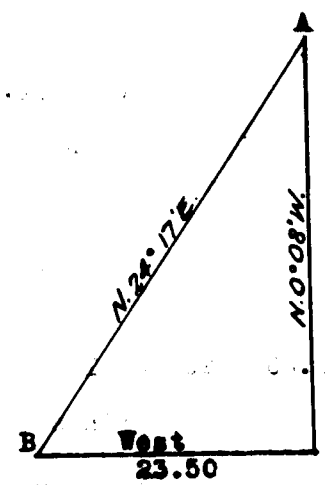
chains

Chains

810 811 00.11
1927 00.35

Cor. stands on steep talus slope, 340 ft. above sec. cor.
The line N. ascends high ledge rims up which I cannot chain; I therefore return to the cor. of secs. 10, 11, 14, and 15 in order to obtain a suitable base line and triangulate as follows:

From sec. cor. set flag "A"
on line to the N.; then
measure base line West,
23.50 chs. to point "B".
The line "BA" bears N. 24°
17'E. All bearings taken
by direct reading of the
solar and angles checked
by deflection.



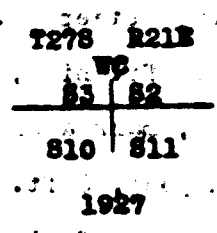
Distance by triangulation = 51.82 chs.

51.82 Point of triangulation on top of ledge and rim of Cane Springs Canyon, 1100 ft. above sec. cor., bears NW. and SE.; thence over rolling bench through scrub timber and short undergrowth.

79.10 Begin steep descent over N. slope.

79.50 Point for cor. of secs. 2, 3, 10, and 11 will fall on steep sloping surface rock where I am unable to perpetuate cor., therefore, at this point.

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in surface rock for witness cor. to the cor. of secs. 2, 3, 10, and 11, with brass cap marked



SECTION OF T.27 S., R.21 E.

Chains

No suitable bearing trees available.

80.00 On steep sloping surface rock and point for the cor. of
secs. 2, 5, 10, and 11.

Run S. portion of mile rough break of canyon; N. 27:94
chs. rolling and broken bench. SW. exposure and drain-
age on S. 52.06 chs. and general N. exposure and drain-
age on remainder of mile.

Soil; shallow sand, clay and rocky of sandstone formation;
4th. rate.

Timber, scrub juniper and pinon on N. 27.94 chs.

Undergrowth, black brush and mountain rush.

S. 89°50' E., on a random line bet. secs. 2 and 11.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.78 Intersect N. and S. line 7 lks. S. of the cor. of secs.
1, 2, 11 and 12.

Thence

N. 89°53' W., on true line bet. secs. 2 and 11.

Over rough broken bench land through scattered timber
and short undergrowth. Descend from ledge rim into
canyon.

4.40 Bottom of fork of Hunter Canyon, drains NE.; ascend.

14.80 Left rim of canyon, 135 ft. above sec. cor., bears NE.
and SW.; gradually ascend.

38.00 Ridge, 75 ft. above rim of canyon, bears NE. and SW.;
descend along broken N. slope.

39.89 On surface rock, mark a cross (X) over which
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass
cap marked

82

811

1927

from which

A pinon, 6 ins. diam., bears S. 21°45' W., 70 lks.

dist., marked $\frac{1}{4}$ S 11 B T

SUBDIVISION OF S. 27, S. 33, E. 3.

entire

Chains

A pinon, 6 ins. diam., bears N. 8° 13' E., 179 lks.

dist., marked $\frac{1}{4}$ S 2 B T 00.00

- 47.20 Draw, 65 ft. deep, drains NE.; ascend broken NE. slope.
 65.90 Top of ascent, 150 ft. above draw, thence along N. slope.
 79.78 The true point for the cor. of secs. 2, 3, 10, and 11.
 Land, rough, broken bench; general NE. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

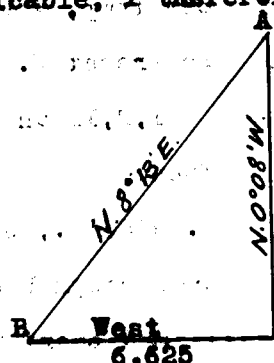
Timber, scrub juniper and pinon.

Undergrowth, black brush and mountain rush.

N. 0° 08' W., on true line bet. secs. 2 and 3.

The line N. passes over deep box canyons and rugged country making chaining impracticable. I therefore triangulate as follows:

Set point "A" on line to the N., then measure base line west, 6.625 chs. to point "B". The line "BA" bears N. 8° 13' E.



All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation	= 45.15 chs.
Distance by return measurement	= $\frac{.17}{44.98}$

The approximate topography N. from the sec. cor. is:

- 8.00 Canyon, 150 ft. deep, drains NE.
 17.00 Ridge, bears NE. and SW.; descend broken NE. slope through scattered timber and short undergrowth.
 35.00 Wash, drains E.; ascend steep S. slope of surface rock.
 40.00 Point for $\frac{1}{4}$ sec. cor. on steep surface rock where I am unable to perpetuate cor.
 44.98 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

18 11 2 1/2 boxes, rain

Chains

211310

S3 S2

VC

1927

45.15 Point of triangulation on top of rise, bears E. and W.;

with descend N. slope.

51.70 Thence along broken N. slope.

66.25 Rim, 40 ft. high, bears E. and W.; descend N. slope.

72.14 Point for the closing cor. of secs. 2 and 3 will fall on inaccessible ground where cor. cannot be set, therefore at this point,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for witness cor. to the closing cor. of secs. 2 and 3, with brass cap marked

T26S R21E

S34

VC

S3

S2

T27S

R21E

CC

1927

from which

A scrub pinon, 3 ins. diam., bears S. $19\frac{1}{2}^{\circ}$ E., 33 lks. dist., marked BT

A scrub pinon, 3 ins. diam., bears S. 32° W., 203 lks. dist., marked BT

72.20 Top of ledge, 100 ft. high and rim of canyon, bears NE and SW. It is impossible to reach the north bdy. of the Tp. from this point either by chaining or triangulating on account of inaccessible ledges; therefore I return to the witness cor. to the closing cor. of secs. 2 and 3 from which point the $\frac{1}{4}$ sec. cor.

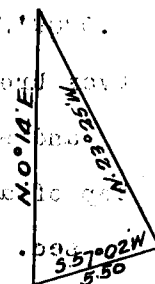
S. bdy. sec. 34, T.26 S., R.21 E. is visible and triangulate as follows:

The witness cor. to the $\frac{1}{4}$

sec. cor. bears N. 23°

25' W. I now measure a

base line S. $57^{\circ}02'$ W., 5.50



SUBDIVISION OF T.27 S., R.21 E.

Chains

antia

chs. and from the end of the base find that the witness cor. to the $\frac{1}{4}$ sec. cor. bears N.0°14'E.

All bearings taken by direct reading of the solar

and angles checked by reflection. Distance by triangulation = 11.47 chs. bearing

of 10.53 chs. and bearing of 4.58 chs. bearing

72:14 chs. + 10:53 chs. = 83:07 chs.

82.67 Intersect N. bdy. of the Tp. 1.60 chs. E. of the true point for the $\frac{1}{4}$ sec. cor. S. bdy. sec. 34, T.26 S., R.21 E. and 4.58 chs. E. of the witness cor. to the $\frac{1}{4}$ sec. cor., which is an iron post, 1 in. dia., firmly set in a mound of stone, with brass cap marked

$\frac{1}{4}$ S34 WC

1926

from which

A pinon, 4 ins. diam., bears N.24 $\frac{1}{2}$ °E., 66 lks.

dist., marked W C $\frac{1}{4}$ S 34 B T

A pinon, 14 ins. diam., bears N.63°45'W., 55 lks.

dist., marked W C $\frac{1}{4}$ S 34 B T

It is impossible to reach the true point for the closing cor. of secs. 2 and 33 on account of inaccessible ground.

Land, rough, rocky bench, broken by ledges and cut by

box canyons; general NE. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, scattered scrub juniper and pinon.

Undergrowth, black brush and mountain rush.

From the cor. of secs. 3, 4, 33, and 34 on the S. bdy. of the Tp. heretofore described.

N.0°09'W., bet. secs. 33 and 34.

Over broken bench land through scattered scrub timber

and short undergrowth. Gradually ascend.

4.40 Top of ascent on W. slope of rocky butte, 50 ft. above

sec. cor.; gradually descend.

.SABERMAN. SPOT. BY S. R. 21 E.

Chains

29.65 Wash, 330 lks. wide, 3 ft. deep, 65 ft. below top of ascent, drains NE.; gradually ascend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 24 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

to show position against rock $\frac{1}{4}$ sec. cor.

at origin of S33 | S34

with base of 1927

from which

A juniper, 10 ins. diam., bears S. $64\frac{1}{2}^{\circ}$ E., 137 lks. dist., marked $\frac{1}{4}$ S 34 B T

A juniper, 6 ins. diam., bears N. 54° W., 329 lks. dist., marked $\frac{1}{4}$ S 33 B T

59.00 Top of rise, bears E. and W.; gradually descend over N. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for cor. of secs. 27, 28, 33, and 34, with brass cap marked

T27S | R21E
S28 | S27

S33 | S34

1927

from which

A juniper, 6 ins. diam., bears N. $85^{\circ}45'$ E., 83 lks. dist., marked BT

A juniper, 6 ins. diam., bears S. $29\frac{1}{2}^{\circ}$ E., 84 lks. dist., marked BT

A pinon, 10 ins. diam., bears N. $85\frac{1}{2}^{\circ}$ W., 29 lks. dist., marked T 27 S R 21 E S 28 B T

No other suitable bearing trees available.

Land, rolling and broken bench; general NE. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, scattered scrub juniper and pinon.

Undergrowth, shadscale and yellow top.

SUBDIVISION OF T. 27 S., R. 11 E.

Chains		arriedO
	East, on a random line bet. secs. 27 and 34.	83.00
40.00	Set temp. $\frac{1}{4}$ sec. cor.	
80.00	Intersect the cor. of secs. 26, 27, 34, and 35.	80.00
	Thence	
	West on true line bet. secs. 27 and 34.	
	Over rough, rocky bench land through medium growth of scrub timber and short undergrowth.	
40.00	On surface rock, mark a cross (X), over which	
	Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked	
	<div style="text-align: center;"> $\frac{1}{4}$ <u>827</u> 834 1927 </div>	
	from which	
	A juniper, 6 ins. diam., bears N. $56\frac{1}{4}^{\circ}$ E., 149 lks. dist., marked $\frac{1}{4}$ S 27 B T	
	A juniper, 5 ins. diam., bears S. $48^{\circ}45'$ E., 141 lks. dist., marked $\frac{1}{4}$ S 34 B T	
80.00	The cor. of secs. 27, 28, 33, and 34.	
	Land, rocky bench; general E. exposure and drainage.	
	Soil, shallow sand and sandstone rock; 4th. rate.	
	Timber, juniper and pinon.	
	Undergrowth, black brush and mountain rush.	
	N. $0^{\circ}09'$ W., bet. secs. 27 and 28.	
	Over rolling and broken bench land through scattered timber and short undergrowth.	
.50	Wash, 2 chs. wide, 20 ft. deep, drains W.; gradually ascend.	
38.00	Draw, wash in same 30 lks. wide, 2 ft. deep, drains SW.; continue gradual ascent.	
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked	

Chains

en1110

S28 S27

1927

Deposit a sandstone, 10x8x6 ins. marked with a cross (X) on one face at base of monument.

No suitable bearing trees available.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for cor. of secs. 21, 22, 27, and 28, with brass cap marked

T27S R21E
S21 S22

S28 S27

1927

Deposit a sandstone, 6x6x4 ins., marked with a cross (X) on one face at base of monument.

No suitable bearing trees available.

Land, rolling and broken bench; general W. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, scattered juniper and pinon.

Undergrowth, black brush and mountain rush.

East, on a random line bet. secs. 22 and 27.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.10 Intersect the cor. of secs. 22, 23, 26, and 27.

Thence

West, on true line bet. secs. 22 and 27.

Ascend over rocky bench land through medium growth of scrub timber and short undergrowth.

24.65 Top of rocky butte, 120 ft. above sec. cor., bears N. and S.; thence over rolling ground through scattered timber.

40.05 On surface rock, mark a cross (X), over which Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

Chino

1927

§ 822

827
1927

from which

A juniper, 12 ins. diam., bears S. 66° W., 62 lbs.
dist., marked § S 27 B T

A juniper, 10 ins. diam., bears N. 23° W., 52 lbs.
dist., marked § S 22 B T

40.10 The cor. of secs. 21, 22, 27, and 28.

Land, rolling and broken bench; general SW. exposure
and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon.

Undergrowth, black brush and mountain rush.

N. 0° 00' W., bet. secs. 21 and 22.

Over rolling bench land through short undergrowth.

3.30 Top of rise, bears NE. and SW.; gradually descend NW.
slope, enter scattered scrub timber.

24.00 Scale, drains NE.; thence along E. slope.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in
the ground on solid rock and 24 ins. in a mound of
stone for § sec. cor., with brass cap marked

§
821 | 822
1927

from which

A pinon, 8 ins. diam., bears N. 61° 45' E., 280
lbs. dist marked § S 22 B T

No other trees available.

Deposit a sandstone, 10x8x6 ins. marked with a cross (X)
on one face at base of monument.

30.00 Begin gradual ascent over E. slope.

07.00 Thence along gentle E. slope.

00.00 Set an iron post, 3 ft. long, 3 ins. in dia., 10 ins. in
the ground on solid rock and 20 ins. in a mound of

Subdivision of T.27 S., R.21 E.

Chains

stone for cor. of secs. 15, 16, 21 and 22, with brass cap marked

T27S R21E
S16 S15

S21 S22
1927

from which

A scrub juniper, 10 ins. diam., bears N.33½°E.,

180 lks. dist., marked BT

No other trees available.

Deposit a sandstone, 7x5x3 ins., marked with a cross (X) on one face at base of monument,

Land, rolling bench; general E. drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon.

Undergrowth, black brush and mountain rush.

East, on a random line bet. secs. 15 and 22.

28.64 The line east descends precipitous breaks of mesa down which I cannot chain; I therefore triangulate as follows:

Set point "A" on random

line to the east and

erect flag "B" at this

point; then from "A"

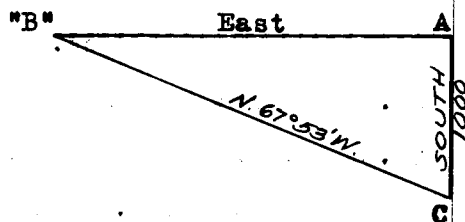
measure base line "AC"

south, 10.00 chs. The

line "CB" bears N.67°53'W. All bearings taken by

direct reading of the solar and angles checked by

deflection.



Distance by triangulation	= 24.61 chs.
Add	28.64 "
Distance on random line to "A"	= 53.25 "
Distance by return measurement	= 13.25 "
	40.00 "

40.00 Set temp. ½ sec. cor.

53.21 The line E. ascends high breaks of canyon up which I cannot chain; the true point for the cor. of secs. 14, 15, 22, and 23 is also inaccessible; I therefore

SUBDIVISION OF T.27 S., R.21 E.

Chains

triangulate to the witness cor. to the cor. of secs. 14,15,22 and 23 which is 2.54 chs. S.0°08'E. of the true cor. point as follows:

From this point the

witness. cor. to cor. of secs. 14,15,22, and 23 bears S.84°38'E.

Measure base line

N.5°22'E., 10.00 chs.,

and from N. end of base find that the witness cor. bears S.64°19'E. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 27.01 chs. or an easting of 26.89 chs. and southing of 2.53 chs.

53.21 chs. + 26.89 chs. =

80.10 Intersect N. and S. line 1 lk. S. of the true point for the cor. of secs. 14,15,22, and 23.

Thence

West, on true line bet. secs. 15 and 22.

Descend precipitous break of canyon (Cane Springs) over high ledges.

26.85 Point for triangulation to the west.

26.89 Point of triangulation, 900 ft. below witness cor. to the cor. of secs. 14,15,22 and 23. Continue descent 150 ft. to

36.20 Draw, drains N., ascend abruptly 80 ft. to

40.05 On surface rock, mark a cross (X) over which,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

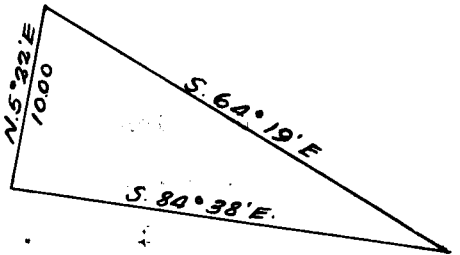
822

1927

The line west ascends high ledges and break of Cane

Spring Canyon, thence by triangulation from the

26.85 chs. point to



SURVEY OF T. 27 S. R. 21 E.

Chains

51.46 Point of triangulation and top of high ledge rim of Cane Springs Canyon, 1000 ft. above draw, bears N.10°E. and S.; thence over rolling bench through scattered timber.

80.10 The cor. of secs. 15, 16, 21 and 22.
Land, rolling bench and precipitous breaks of canyon; general N. exposure and drainage.
Soil, shallow sand, clay and sandstone rock; 4th. rate.
Timber, scrub juniper and pinon on bench.
Undergrowth, black brush and mountain rush.

N.0°09'W., bet. secs. 15 and 16.
Over rolling bench land through scattered scrub timber and short undergrowth.

11.40 Low rise, bears E. and W.; gradually descend.

22.40 Top of ledge about 350 ft. high and rim of bench, bears E. and W.; leave timber. The line N. descends high ledges and precipitous talus slope down which I cannot chain; therefore triangulate as follows:

Set point "A" on line to the N., and erect flag

"B" at this point; then

from "A" measure base line

"AC", East, 33.38 chs.

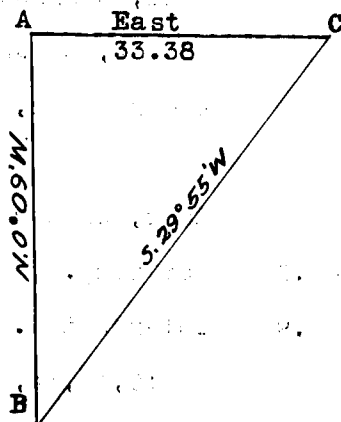
The line "CB" bears

S.29°55'W. All bearings

Taken by direct reading

of the solar and angles

checked by deflection.



Distance by triangulation = 57.75 chs.

Distance on line to point "A", add 22.40 chs.

Distance by return measurement = 80.15 "

Distance by return measurement = 40.15 "

Distance by return measurement = 40.00 "

40.00 On surface rock, mark a cross (X), over which

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in

a large mound of stone for 1 sec. cor., with brass

at each cor. ...

SURVEYING OF THE MOUNTAIN

Chains

enlag3

cap marked
S16 S15

1927

Cor. stands on steep talus slope; continues abrupt

descent 400 ft. to

65.40 Wash, 15 lks. wide, 3 ft. deep, in draw, drains NE.;

thence over broken ground.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground over a cross (X) cut in solid rock and 24 ins. in a large mound of stone for cor. of secs. 9, 10, 15, and 16, with brass cap marked

T278	R218
S9	S10
S16	S15

1927

Cor. stands in small draw, draining NE.

Land, S. 22.40 chs. rolling bench; remainder of mile precipitous slopes; general NE. exposure and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

Timber, scrub juniper and pines on bench.

Undergrowth, shadscale and mountain rush.

East, on a random line bet. secs. 10 and 15.

40.00 Set temp. 1/4 sec. cor.

79.98 Intersect N. and S. line 2 lks. N. of the cor. of secs.

10, 11, 14, and 15.

Thence

N. 89° 59' W., on true line bet. secs. 10 and 15.

Over rolling and broken ground through short undergrowth

6.40 Stream, 50 lks. wide, 1 ft. deep, (flood water) in wash

about 2 chs. wide in bottom of Cane Springs Canyon,

course NW, (X) across a stream, 1000 feet long

11.00 Wash, 60 lks. wide, 3 ft. deep, drains NW

14.00 Trail, bears N. to Wash, Utah and S. to Hatch Point.

39.99 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in

Chains	
	the ground for $\frac{1}{4}$ sec. cor., with brass cap marked
	810
	815
	1927
	Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.;
	also, deposit a sandstone, 5x4x3 ins.; marked with
	a cross (X) on one face at base of monument.
49.90	Shallow draw, drains NE.
69.60	Wash, 15 lks. wide, 3 ft. deep, in draw, drains N.
79.98	The cor. of secs. 9, 10, 15 and 16.
	Land, rolling; general N. exposure and drainage.
	Soil, sandy and rocky of sandstone formation; 4th. rate.
	No timber.
	Undergrowth, shadscale and yellow top.
	N. 0° 09' W., bet. secs. 9 and 10.
	Over rolling and broken ground through short undergrowth.
19.30	Wash, 20 lks. wide, 3 ft. deep, in draw, drains NE.;
	ascend.
24.30	Low spur, projects NE. about 3 chs. distant; descend.
29.00	Wash, 30 lks. wide, 3 ft. deep, in draw, drains SE.;
	ascend 90 ft. to
30.30	Spur, projects E.; descend.
33.90	Draw, 140 ft. below spur, drains E.; ascend 165 ft.
36.40	Spur, projects E.; descend over ledge.
37.10	Base of spur and ledge, 80 ft. high, bears SE. and W.;
	descend 85 ft. to
40.00	On surface rock, mark a cross (X), over which
	Set an iron post, 3' ft. long, 1 in. in dia., 30 ins.
	in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass
	cap marked
	810
	1927
62.90	Wash, 20 lks. wide, 5 ft. deep, in draw, drains NE.;
	ascend.

SUBDIVISION OF SECTION 11 E.

Chains

64.50 Spur, projects E.; gradually descend N. slope.

79.50 Wash, 40 lks. wide, 3 ft. deep, in draw, drains NE.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground over a cross (X) cut in solid rock and 20 ins. in a mound of stone for cor. of secs. 3, 4, 9 and 10, with brass cap marked

T278	B21E
S4	S3

S9 S10

1927

Land, rolling and broken; general E. exposure and drainage.

Soil, shallow sand, clay and rocky of sandstone formation, 4th. rate.

No timber.

Undergrowth, shadscale and yellow top.

S. 89° 59' E., on a random line bet. secs. 3 and 10.

39.28 Set point for future reference.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

The line east ascends high ledges and breaks of canyon up which I cannot chain; return to my point at 39.28 chs. and make the following triangulation.

Set flag "A" on random

line to the east,

and erect flag

"B" at this point;

then from "A" measure

a base line S. 0° 01' W.

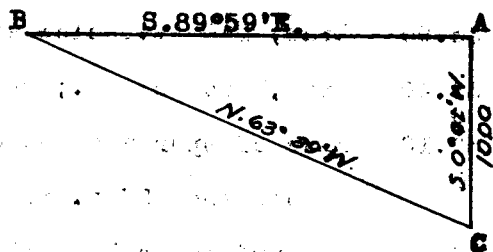
10.00 chs. to point "C"

The line "CB" bears N. 63° 39' W. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 20.20

59.48 E. point of triangulation.

79.80 Intersect N. and S. line 11 lks. N. of the true point for the cor. of secs. 2, 3, 10, and 11.



SECTION OF T.27N.31.E.21 E.

Chains

Thence

N.89°54'W., on true line bet. secs. 3 and 10.

Along N. slope over rolling and broken land through

medium growth of scrub timber and short undergrowth.

Begin gradual ascent over E. slope.

Ridge, bears N. and S.; descend W. slope.

Point of triangulation, bears 8 lks. N.

Top of ledge, 300 ft. high and rim of Cane Springs

Canyon, bears NE. and SW.; leave timber, thence by

triangulation over ledges and precipitous talus slope.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in

a large mound of stone over a cross (X) cut in solid

rock for $\frac{1}{4}$ sec. cor., with brass cap marked

S3

$\frac{1}{4}$

S10

1927

Cor. stands on steep slope, 815 ft. below rim of canyon.

Continue to descend.

W. point of triangulation, bears 5 lks. N.

Bottom of Cane Springs Canyon and wash about 3 chs. wide,

15 ft. deep, stream, 50 lks. wide, 1 ft. deep, (flood water) in wash, 300 ft. below $\frac{1}{4}$ sec. cor., course N.

Gradually ascend. Trail in bottom of wash.

Wash, 40 lks. wide, 3 ft. deep, in draw, drains NE.

The cor. of secs. 3, 4, 9, and 10

Land, E. 20.60 chs. rolling and broken bench, NE. expos-

ure and drainage; remainder of mile precipitous talus

slopes and broken canyon bottom draining N.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

Timber, juniper and pinon on bench.

Undergrowth, shadscale, mountain rush and black brush.

N.0°09'W., on true line bet. secs. 3 and 4.

Gradually ascend over rolling and broken ground through

short undergrowth.

Chains

- 7.15 Spur, 35 ft. above sec. cor., projects SE ^{90°} descend gentle NE. slope.
- 22.10 Bottom of Cane Springs Canyon and wash, 4 chs. wide, 15 ft. deep, stream, 50 lks. wide, 1 ft. deep, (flood water) in wash, 65 ft. below spur, course NW. Trail in wash, bears NW. to Moab, Utah and SE. to Hatch Point. Ascend 80 ft. to
- 33.00 Spur, projects W.; gradually descend.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground over a cross (X) cut in solid rock and 24 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked
- S4 | S3
1927
- 53.80 Bottom of Cane Springs Canyon and wash, 5 ch. wide, 10 ft. deep, with stream 50 lks. wide, 1 ft. deep, (flood water) in bottom of same, course NE. Trail in wash, bears N. 30° E. to Moab, Utah and S. 30° W. to Hatch Point.
- 77.00 Thence along wash, trail, Moab to Indian Creek in bottom of same, course NW.
- 82.42 Stream in Cane Springs Canyon wash, course NW. Intersect N. bdy. of the Tp., 2.07 chs. east of the $\frac{1}{4}$ sec. cor. S. bdy. sec. 33, T. 26 S., R. 21 E., which is an iron post, 1 in. in dia., firmly set in the ground, with brass cap marked

$\frac{1}{4}$ S33

1926

an witnessed by a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for closing cor. of secs. 3 and 4, with brass cap marked

T268 R21E

S33

S4 | S3
T278 R21E

CC

1927

ISSUE DIVISION OF 1927 VS. 1921 E.

Chains

2000

1. Raise a mound of stone, 2 ft. base, 1 ft. high, S. of cor.

Land, rolling and broken; general N. drainage.

Soil, sandy, sandstone rock and clay; 4th. rate.

No timber. Undergrowth, shade, mountain rush, and black brush.

Undergrowth, shade, mountain rush, and black brush.

From the cor. of secs. 4, 5, 32, and 33 on the S. bdy. of

the Tp. heretofore described.

N. 0° 10' W. bet. secs. 32 and 33.

Over broken bench land through short undergrowth.

23.30 Rise, 50 ft. above sec. cor., bears NE. and W.; descend.

29.85 Set flag for future reference.

38.49 Top of ledge, 250 ft. high and rim of bench or Hatch

Point, bears NE. and SW. Point for $\frac{1}{4}$ sec. cor. will

fall on inaccessible ground where cor. cannot be set,

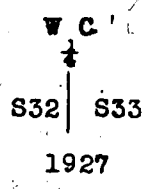
therefore, at this point,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in

a large mound of stone over a cross (X) cut in solid

rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass

cap marked



40.00 Point for $\frac{1}{4}$ sec. cor. falls on inaccessible ledge.

The line N. passes over high ledge rims of Hatch Point

across which I cannot chain; therefore, I return to

my station at 29.85 chs. and make the following

triangulation.

Set flag "A" on line to

the N.; then with the

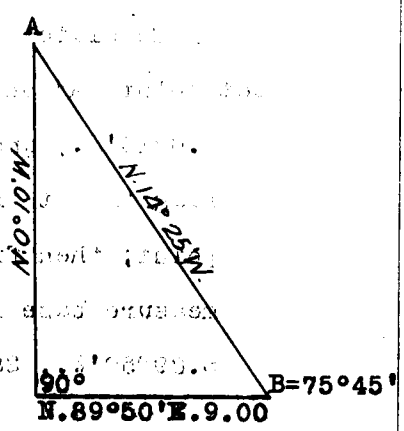
transit over station at

29.85 chs. and the teles-

cope directed to "A"

deflect and angle of 90°

right and measure



Chains

aniamD

base line N. 89° 50' E., 8.00 chs. to point "B". The line "BA" bears N. 14° 35' W. and the angle subtended at "B" = 75° 45'. All bearings taken by direct reading of the solar and angles checked by deflection.

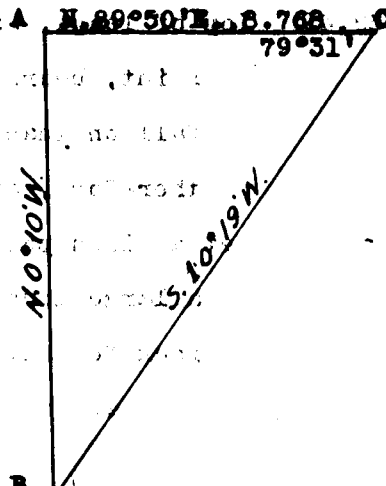
Distance by triangulation = 135.44 chs.

46.50 Approximate distance to rim of Hatch Point, 200 ft. high, bears NW. and SE.; thence over bench to

65.29 Rocky spur, projects NW., also N. point of triangulation.

65.77 Top of ledge and rim of Hatch Point, 250 ft. high. High ledges and precipitous talus slopes ahead on line make chaining impracticable; therefore, I triangulate as follows:

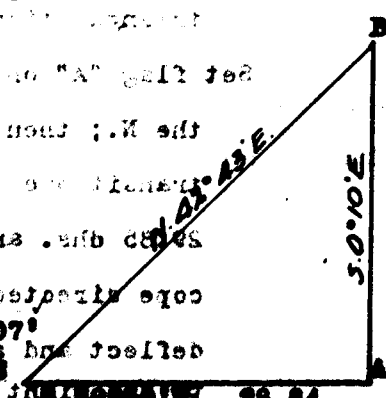
Set point "A" on line to A N. 89° 50' E. 8.768 chs. C
 the N. and erect flag B. 79° 31'
 "B" at this point;
 then, from "A" measure
 base line "AC", N. 89° 50' E., 8.768 chs. The
 line "CB" bears S. 10° 19' W. and the angle subtended
 at "C" = 79° 31'. All
 bearings taken by direct
 reading of the solar and angles checked by deflection.



Distance on line to point "B"	=	65.77 chs.
Distance "AB" by triangulation	=	47.39 "
Distance to point "A"	=	113.16 "
Distance by return measurement (direct)	=	2.13 "
		111.03 "

The line to the S. descends high ledges and talus slope of Hatch point; chaining is impracticable, therefore I triangulate as follows:

Set point "A" on line S. 0° 10' E., and erect flag "B" at this point; then from "A" measure base line "AC" S. 89° 50' W., 28.84 chs.



...SUNDAY, OCT. 27, 1927.

Chains

and (C)

The line "CB" bears $S.42^{\circ}43'E.$ and the angle subtended at "C" is $47^{\circ}02'$. All bearings taken by direct reading of the solar and angles checked by deflection. Distance "AB" by triangulation = 31.05 chs. which subtracted from 111.03 chs. =

79.98 To point of triangulation on steep N. talus slope.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for cor. of secs. 28, 29, 32, and 33, with brass cap marked

T27S	R21E
S29	S28
S32 S33	
1927	

Land, rolling and broken bench and precipitous breaks, sandstone rims and ledges; general NW. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, a few scattered scrub juniper and pinon.

Undergrowth, black brush and mountain rush.

A flag "A", set 4.14 chs. west of the cor. of secs. 27, 28, 33, and 34 is visible and bears $S.89^{\circ}56'E.$, I run for said flag,

$S.89^{\circ}56'E.$, on a random line bet. secs. 28 and 33.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

The line to the E. passes over precipitous rocky talus slope and over high ledge rims impracticable to chain; I therefore return to the cor. of secs. 28, 29, 32 and 33 and triangulate as follows:

From the sec. cor. measure

base line $N.0^{\circ}04'E.$,

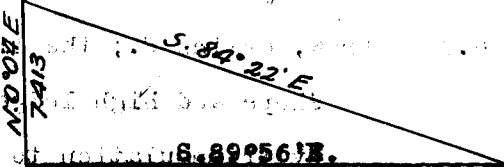
7.413 chs. and from

the north end of base

find that the flag

set 4.14 chs. west of

the cor. of secs. 27, 28, 33, and 34 bears $S.84^{\circ}22'E.$



SUMMARY OF FIELD NOTES.

Chains	and 10
	All bearings taken by direct reading of the solar and angles checked by deflection. at 10° 30' S. of E.
	Distance by triangulation = 76.06 chs. to pt. 10
80.20	Intersect the cor. of secs. 28, 29, 32, and 33.
	Thence
	N. 89° 56' W., on true line bet. secs. 28 and 33. 80.00
	Over broken bench through scattered scrub timber and short undergrowth. 0.00
4.14	Top of ledge, 200 ft. high and rim of bench or Hatch Point, bears N. and S. 80° W.; thence by triangulation over ledges and along precipitous N. and NW. talus slopes.
40.10	On steep NW. slope.
	Set an iron post, 3 ft. long, 1 in. in dia., 50 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked
	S28
	$\frac{1}{4}$
	S33
	1927
	Continue descent over NW slope.
62.00	Draw, 130 ft. below $\frac{1}{4}$ sec. cor., drains NW.; thence along steep N. slope.
80.20	The cor. of secs. 28, 29, 32 and 33.
	Land, broken bench and steep talus slopes and rims; general NW. exposure and drainage.
	Soil, shallow sand, clay and sandstone rock; 4th. rate.
	Timber, a few scattered scrub juniper and pinon.
	Undergrowth, shadscale, yellow top and mountain rush.
	N. 0° 10' W., bet. secs. 28 and 29.
	Descend abruptly over talus slope facing N., through very scattered scrub timber and short undergrowth.
6.80	Draw, drains W.; the line north ascends over very steep slope and high ledges up which I cannot chain; thence by triangulation to
31.83	See line bet. secs. 32 and 33 for this triangulation.

SUBDIVISION OF T.27 S., R.21 E.

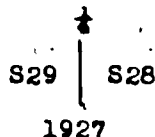
Chains

This point is on top of ledge 300 ft. high and rim of bench or Hatch Point, bears NW. and E.; thence over nearly level bench.

40.00

On surface rock, mark a cross (X) over which

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked



from which

A pinon, 6 ins.diam., bears S.76°E., 228 lks.

dist., marked $\frac{1}{4}$ S 28 B T

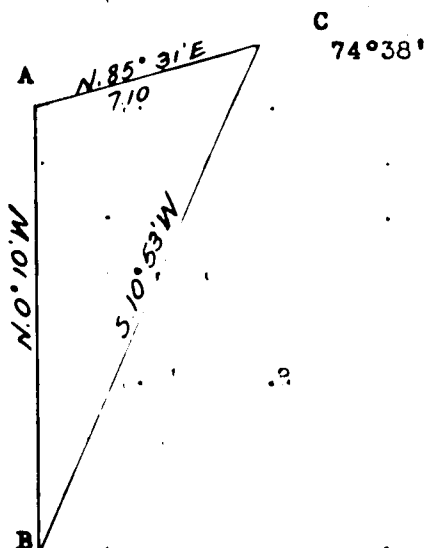
A pinon, 4 ins.diam., bears N.73°W., 128 lks.

dist., marked $\frac{1}{4}$ S 29 B T

44.42

Top of ledge, 300 ft. high and rim of Hatch Point, bears NE. and SW. High ledges ahead on line make chaining impossible; I therefore triangulate as follows:

Set point "A" on line N., and erect flag "B" at this point. Then, from "A" measure base line "AC", N.85°31'E., 7.10 chs. The line "CB" bears S.10°53'W. and the angle subtended at "C" is 74°38' All bearings taken by direct reading of the solar and angles checked by deflection.



Distance on line to "B"	= 44.42 chs.
Distance by triangulation	= 35.72 "
Distance to "A"	= 80.14 "
Distance by return measurement	4.14 "

76.00

Top of ledge and rim of Hatch Point, bears NW. and SE., ledge 200 ft. high. Thence over bench.

80.00

On surface rock, mark a cross (X) over which,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.

SUBDIVISION OF T. 21 N., R. 21 E.

Chains

in a mound of stone for cor. of secs. 20, 21, 28, and 29, with brass cap marked

T278	R21E
S20	S21

S29	S28
1927	

from which

A scrub juniper, 6 ins.diam., bears N.33°45'E., 181

lks. dist., marked BT

A scrub pinon, 6 ins.diam., bears S.79½°E., 158

lks. dist., marked BT

A pinon, 10 ins.diam., bears N.35°45'W., 21 lks.

dist., marked T 27 S R 21 E S 20 B T

No other trees available.

Land, rolling and broken bench and precipitous ledges and slopes of bench; general W. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, scrub juniper and pinon.

Undergrowth, sagebrush, black brush and mountain rush.

S.89°56'E., on a random line bet. secs. 21 and 28.

40.00 Set temp. ¼ sec. cor.

80.12 Intersect N. and S. line 20lks. E. of the cor. of secs. 21, 22, 27, and 28.

Thence

S.89°55'W., on true line bet. secs. 21 and 28.

Gradually ascend over rolling bench land through scattered scrub timber and short undergrowth.

27.70 Top of rise, 65 ft. above sec. cor., bears NW. and SE.; descend very gradually.

40.06 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for ¼ sec. cor., with brass cap marked

S21

S28

1927

Deposit a sandstone, 7x5x4 ins., marked with a cross (X) on one face at base of monument.

SUBDIVISION OF T.27 S..R.21 E.

Chains

No suitable bearing trees available.

80.12 The cor. of secs. 20, 21, 28, and 29.

Land, rolling bench; general W. drainage.

Soil, sandy and rocky of sandstone formation; 2nd. to 4th. rates.

Timber, scattered scrub juniper and pinon.

Undergrowth, black brush and mountain rush.

N.0°10'W., bet. secs. 20 and 21.

Gradually ascend over rolling and broken bench through medium growth of scrub timber and short undergrowth.

40.00 On surface rock, mark a cross (X), over which,
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

S20 S21

1927

from which

A juniper, 10 ins. diam., bears S.42 $\frac{1}{2}$ °E., 89 lks.

dist., marked $\frac{1}{4}$ S 21 B T

A scrub juniper, 6 ins. diam., bears N.86°W., 89

lks. dist., marked BT

41.17 Set point for future reference.

41.40 Top of ledge, 300 ft. high and rim of Hatch Point, bears NE. and SW.; line north passes over high ledges and breaks of bench and cannot be chained, I therefore triangulate as follows:

Return to my point at 41.17

chs. and set flag "A" on

line to the north; then

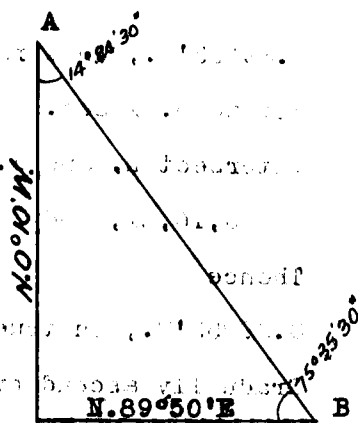
measure base line N.89°

50'E., 7.385 chs. to

point "B". The angles

subtended at "A" and

"B" are 14°24'30" and



7.385

SUBDIVISION OF T.27 S., R.21 E.

Chains

75°35'30" respectively. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 28.74 chs.

69.80 Top of ledge 300 ft. high and rim of Hatch Point, bears NW. and SE.; thence over bench.

69.91 Point of triangulation.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 3 ins. in the ground on solid rock and 27 ins. in a mound of stone for cor. of secs. 16, 17, 20, and 21, with brass cap marked

T278	R21E
S17	S16
S20	S21
1927	

from which

A pinon, 3 ins.diam., bears N.60°E., 82 lks.
dist., marked BT

A juniper, 6 ins.diam., bears S.70½°E., 127 lks.
dist., marked T 27 S R 21 E S 21 B T

A juniper, 4 ins.diam., bears S.29½°W., 139 lks.
dist., marked BT

A pinon, 3 ins.diam., bears N.45½°W., 82 lks.
dist., marked BT

Land, rolling and broken bench and rough breaks; general west exposure and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

Timber, juniper and pinon.

Undergrowth, black brush and mountain rush.

N.89°55'E., on a random line bet. secs. 16 and 21.

40.00 Set temp. ¼ sec. cor.

80.02 Intersect N. and S. line ½ lks. S. of the cor. of secs. 15, 16, 21, and 22.

Thence

S.89°53'W., on true line bet. secs. 16 and 21.

Gradually ascend over rolling bench land through scattered timber and short undergrowth.

E. 12. N. SUBDIVISION OF T127E30, R. 21 N.

Chains

40.01 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S16

S21

1927

from which

A pinon, 8 ins.diam., bears S.78°45'W., 86 lks.

dist., marked $\frac{1}{4}$ S 21 B T

A scrub juniper, 6 ins.diam., bears N.81°W., 117

lks. dist., marked BT

48.00 Top of an isolated sandstone dome, 175 ft. high and about 500 ft. long, bears N. and S.; descend.

57.10 Thence over nearly level land.

80.02 The cor. of secs. 16, 17, 20, and 21.

Land, rolling and broken bench; general E. and W. exposure and drainage from sandstone dome at 48.00 chs.

Soil, sandy and sandstone rock; 2nd. to 4th. rate.

Timber, scattered juniper and pinon.

Undergrowth, black brush and mountain rush.

N.0°10'W., bet. secs. 16 and 17.

Over rolling and broken bench land through medium growth of scrub timber and short undergrowth.

27.35 Top of rise, bears E. and W.; gradually descend over gentle N. slope entering scattered timber.

37.00 Wash, 20 lks. wide, 3 ft. deep, drains SW.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$

S17

S16

1927

from which

A juniper, 12 ins.diam., bears S.18°45'E., 92 lks.

dist., marked $\frac{1}{4}$ S 16 B T

A juniper, 10 ins.diam., bears N.66 $\frac{1}{2}$ °W., 303 lks.

dist., marked $\frac{1}{4}$ S 17 B T

Chains

68.45 Rim of rocky ridge, bears N. 32° E. and W. 32° E. near level lines.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 24 ins. in a mound of stone for cor. of secs. 8, 9, 16, and 17, with brass cap marked

T27S	R21E
S8	S9

S17 S16
1927

from which

A juniper, 4 ins. diam., bears N. 32½° E., 12 lks.

dist., marked BT

A juniper, 6 ins. diam., bears S. 46° 45' E., 205 lks.

dist., marked BT

A juniper, 6 ins. diam., bears S. 32° 45' W., 105 lks.

dist., marked BT

A juniper, 6 ins. diam., bears N. 80° W., 180 lks.

dist., marked T27S R21E S8 BT

All the above trees too scrubby for full marking.

Land, rolling and broken bench; general N. and S. exposure and drainage from 27.35 chs. point.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, juniper and pinon.

Undergrowth, black brush and mountain rush.

N. 89° 53' E., on a random line bet. secs. 9 and 16.

19.07 High ledges and breaks of bench make chaining to the east

impracticable, I therefore triangulate as follows:

Set point "A" on line to the east and erect flag "B"

at this point; then with the transit over "A" and the

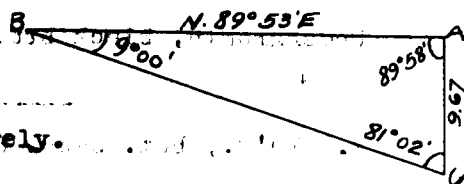
telescope directed to "B" deflect an angle of 89° 58'

to the left and measure base line "AC", 9.67 chs.

distant. The angles subtended at "B" and "C"

Chains

determined by
repetition are $9^{\circ}00'$
and $81^{\circ}02'$ respectively.



Distance by traingulation	= 61.06 chs.
Distance by return measurement	.07 "
	60.99 "
Total distance on line secs. 9 & 16, add	19.07 "
	80.06 "

80.06 Intersect N. and S. line 3 lks. N. of the cor. of secs.
9, 10, 15, and 16.

Thence

S. $89^{\circ}55'W.$, on true line bet. secs. 9 and 16.

By direct measurement; gradually ascend over rolling
and broken ground through short undergrowth.

15.00 Wash, 20 lks. wide, 4 ft. deep, drains NE.

26.00 Wash, 15 lks. wide, 3 ft. deep, drains NE.

29.00 Begin steep ascent over talus slope.

40.03 On steep talus slope, 175 ft. above sec. cor.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a large mound of stone over a cross (X) on solid
rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{89}{1}$
816
1927

Thence by triangulation over precipitous slopes and
high ledges.

60.00 Top of ledge, 250 ft. high and rim of Hatch Point, 1000
ft. above sec. cor., bears NW. and SE.; thence over
bench through scrub timber and short undergrowth.

60.99 Point of triangulation, bears 1 lk. N.

80.06 The cor. of secs. 8, 9, 16, and 17.

Land, rolling and rough rugged slopes of bench; general
N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, scrub pinon and juniper on west portion of mile.

SURVEYING OF THE MOUNTAIN

Chains

Chains

Undergrowth, black brush and mountain ash.

10000 STS. MULTIFLEX

N.0°10'W., bet. secs. 8 and 9.

Over rocky bench land through scattered timber and short undergrowth.

9.80 Low rise, 35 ft. above sec. cor., bears E. and W.;
descend 50 ft. to

13.97 Top of ledge, 300 ft. high and rim of Hatch Point, bears
NW. and SE. The line N. descends over high ledges, then follows along a steep talus slope and high ledge rims on east side of a sharp spur projecting N. Direct measurement on this line to the N. is impracticable neither am I able to set a flag on line for triangulation; therefore, I proceed as follows:

Set flag "A" N.4°37'E.

and erect flag "B" at

this point; then, from

"A" measure base line

"AC", S.85°23'E., 8.012

chs. distant. The line

"CB" bears S.12°39'W.

All bearings taken by

direct reading of the

solar and angles checked by deflection.

Distance by triangulation = 56.77 chs., or an easting of
4.57 chs. and northing of 56.59 chs.

56.59 chs. + 13.97 chs. = 70.56 chs. northing to point

"A" from the cor. of secs. 8, 9, 16, and 17; also,

4.57 chs. + .16 chs. = 4.73 chs. the distance which

"A" is east of true line bet. secs. 8 and 9.

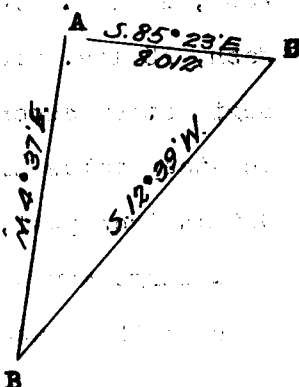
Being unable to return to true line at this point, I

run on offset line on return measurement as follows:

S.0°10'E., 30.56 chs., then

West, 4.73 chs. to true line bet. secs. 8 and 9 at

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in



SUBDIVISION OF T.27 S., R.21 E.

Chains

"0A" 93.8 the ground over a cross (X) cut in solid rock and
 11A 130°55' 20 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor.,
 with brass cap marked

S8 | S9

1927

Cor. stands on steep talus slope. About 8 chs. N. of
 this cor. is the foot of the talus slope and wash,
 20 lks. wide, 10 ft. deep, drains NE. The line north
 from this $\frac{1}{4}$ sec. cor. follows along a rugged E. slope
 broken by ledges along which it is impracticable to
 project a true line; therefore I return to my point
 on the 4.73 chs. offset at 70.56 chs. and continue
 N.0°10'W., on offset line 9.44 chs., then
 West, 4.73 chs. to true line at

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in
 a large mound of stone over a cross (X) cut in solid
 rock for cor. of secs. 4, 5, 8, and 9, with brass cap
 marked

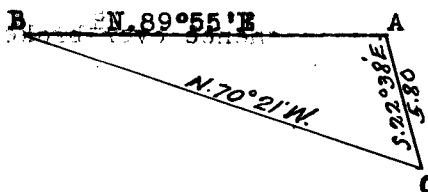
T27S | R21E
 S5 | S4
 S8 | S9
 1927

Land, broken bench and rugged breaks of high bench or
 mesa and spur; general NE. exposure and drainage.
 Soil, shallow sand, clay and sandstone rock; 4th. rate.
 Timber, scattered juniper and pinon on bench.
 Undergrowth, black brush and mountain rush.

N.89°55'E., on a random line bet. secs. 8 and 9.

.83 The line east descends high ledges down which I cannot
 chain; therefore triangulate as follows:

Set point "A" on random
 line to the east and
 erect flag "B" at this



SUBDIVISION OF T.27 S..R.21 E.

Chains

entered

point; then, from "A" measure base line "AC", S.22° 38'E., 5.80 chs. The line "CB" bears N.70°21'W. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 12.71 chs.

13.54 Point of triangulation; the line E. descends high ledge rims over which it is impracticable to chain; I therefore triangulate to a point E. on line as follows:

Set flag "E" on random

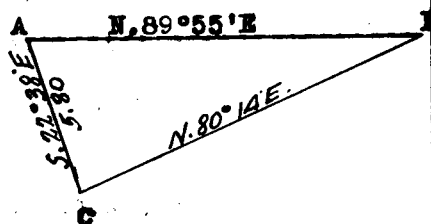
line to the east; base

line "AC" of the previous triangulation bears

S.22°38'E., 5.80 chs.

The line "CA" bears

N.80°14'E.; all bearings taken by direct reading of the solar and angles checked by deflection.



Distance on line to "A"	= 13.54 chs.
Distance "AB" by triangulation	= 33.62 "
Distance to "E" on random line	= 47.16 "
Distance by return measurement	= 7.16 "
	<u>40.00</u>

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.80 Intersect N. and S. line 26 lks. N. of the cor. of secs. 3, 4, 9, and 10.

Thence

N.89°54'W., on true line bet. secs. 4 and 9.

Ascend over rolling and broken ground through short undergrowth.

7.70 Spur, 100 ft. above sec. cor., projects SE.; descend W. slope 50 ft. to

18.80 Wash, 20 lks. wide, 2 ft. deep, in draw, drains SE.; gradually ascend E. slope.

25.80 Spur, 125 ft. above draw, projects SE.; descend.

31.60 Wash, 15 lks. wide, 3 ft. deep, in draw, drains SE.; thence over broken ground.

unit to "E" 341 feet

SURVEY OF THE RIVER

Chains

entail

32.64 Point of triangulation, bears 15 lks. N.

39.90 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a large mound of stone over a cross (X) cut in solid
rock for $\frac{1}{2}$ sec. cor., with brass cap marked

S4

S9

1927

44.70 Enter scattered scrub timber, bears N. and S.

50.00 Leave timber, bears N. and S.

Thence by triangulation over high sandstone ledges to
bears 5 lks. N.

66.26 W. point of triangulation/on top of sandstone ledge,
150 ft. high, bears N. and S. 30° E.; continue by
triangulation over high sandstone ledges on E. slope
of spur.

68.80 Trail, bears N. and S.

78.97 W. point of triangulation on spur, 100 ft. above $\frac{1}{2}$ sec.
projects N. From this point an abandoned oil well
locally known as the Snowden-Mc Sweeney Location,
bears N. $27^{\circ}17'$ W.

79.80 The cor. of secs. 4, 5, 8, and 9,

Land, rolling and broken; general E. exposure and N.
drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

Timber, scattered juniper and pinon on central portion
of mile.

Undergrowth, yellow top and shadscale.

N. $0^{\circ}10'$ W., on true line bet. secs. 4 and 5.

Gradually ascend along W. slope of high spur projecting

N., over rough broken ground through short undergrowth.

8.85 Top of ascent, 50 ft. above sec. cor.; descend.

24.00 Base of descent on W. slope, 140 ft. below top of ascent;
gradually ascend.

DIVISION OF THE U. S. GEOLOGICAL SURVEY

Chains

- Trail, bears SE. and SW., over Haffan Pass in spur.
 Top of spur, projects N.; thence along top of spur.
 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
 a large mound of stone over a cross (X) cut in solid
 rock for $\frac{1}{4}$ sec. cor., with brass cap marked

S5

S4

1927

Continue along top of spur ascending over series of low
 ledges.

- 82.34 Intersect N. bdy. of the Tp. 2.16 chs. east of the $\frac{1}{4}$ sec.
 cor. S. bdy. sec. 32, T.26 S., R.21 E., which is an
 iron post, 1 in. in dia., firmly set in the ground
 and mound of stone, with brass cap marked

S32

1926

Marked stone deposited at base of cor. monument.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in
 a mound of stone over a cross (X) cut in solid rock
 for closing cor. of secs. 4 and 5, with brass cap
 marked

T26S R21E

S32

S5

S4

T27S

R21E

CC

1927

Land, rough and broken; general W. exposure and drain-
 age.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

No timber.

Undergrowth, yellow top and shadecolor.

brass vilsberg

From the cor. of secs. 5, 6, 31, and 32 on the S. bdy. of

SUBDIVISION OF T.27 S., R.21 E.

Chains

00 the Sp. heretofore described.

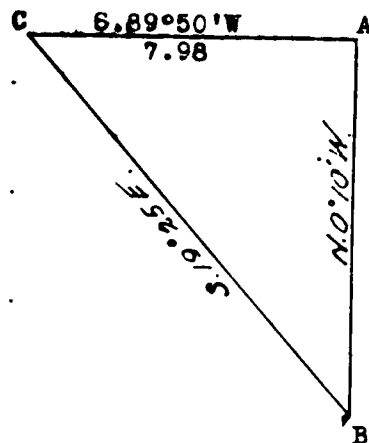
0.00 N. 0°10' W., bet. sec. 31 and 32.

Over rough, mountainous land through short undergrowth.

.60 Wash, 30 lks. wide, 4 ft. deep, in canyon, drains NE.;
thence along general E. slope.

7.10 Wash, 20 lks. wide, 3 ft. deep, drains E. The line N.
ascends high ledges up which I cannot chain; triang-
ulate as follows:

Set point "A" on line N.,
and erect flag "B" at
the cor. of secs. 5, 6,
31 and 32; then, from "A"
measure base line "AC"
S. 89°50' W., 7.98 chs.



The line "CB" bears S. 19°

25' E. All bearings taken

by direct reading of the

solar and angles checked by deflection.

Distance by triangulation = 22.65 chs.

22.65 Top of ledge and rim of bench known as Hatch Point, 250
ft. above sec. cor., bears NE. and SW.; thence over
bench through scrub timber and short undergrowth.

40.00 On surface rock, mark a cross (X), over which,
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap
marked

+
831 | 832
1927

from which

A pinon, 12 ins. diam., bears N. 57 $\frac{1}{2}$ ° E., 57 lks.

dist., marked $\frac{1}{4}$ S 32 E T

A pinon, 6 ins. diam., bears S. 65°45' W., 215 lks.

dist., marked $\frac{1}{4}$ S 31 E T

80.00 At base of small ledge.

SUBDIVISION OF T.27 S.12E.20E.12S

Chains

antism

Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in a mound of stone over a cross (X) cut in solid rock for cor. of secs. 29, 30, 31, and 32, with brass cap marked.

T278

R21E

S30

S29

S31

S32

1927

from which

A scrub pinon, 8 ins. diam., bears N. $56\frac{1}{2}^{\circ}$ E., 53 lks. dist., marked BT.

A scrub pinon, 6 ins. diam., bears S. $36\frac{1}{2}^{\circ}$ E., 29 lks. dist., marked BT.

A scrub pinon, 5 ins. diam., bears S. $40\frac{1}{2}^{\circ}$ W., 27 lks. dist., marked BT.

No other trees available.

No 2 inch iron post available for this cor.

Land, S. 22.85 chs. rough mountainous breaks of bench; remainder of mile rolling and broken bench; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

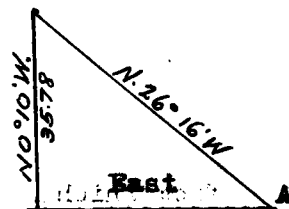
Timber, scrub juniper and pinon on bench.

Undergrowth, black brush and mountain rush.

East, on a random line bet. secs. 29 and 32.

Line E. follows along high ledges and points of bench impossible to chain; therefore triangulate as follows

Set flag "A" on random line E., from which point the witness $\frac{1}{4}$ sec. cor. bet. secs. 29 and 30, established



35.78 chs. N. $0^{\circ}10'$ W. from cor. of secs. 29, 30, 31 and 32, bears N. $26^{\circ}16'$ W.

Distance by triangulation = 17.55 chs.

17.55

Point of triangulation; line east descends precipitous break of bench over which I cannot chain; triangulate as follows:

SUBDIVISION OF TWP. 5, RANGE 2.

Chains

antlad3

of bench projecting N. 4° 36' E. 3.00 chs. to
 79.86 The cor. of secs. 29, 30, 31, and 32. Land, rough and broken talus slopes; general N. exposure and drainage.

Soil, clay, shallow sand and rocky of sandstone formation; 4th. rate.

No timber.

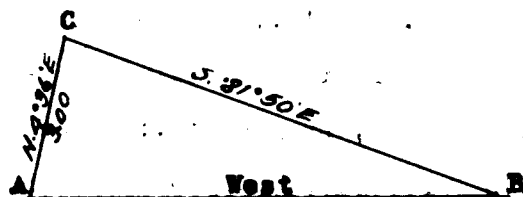
Undergrowth, black brush and mountain rush.

West, on true line bet. secs. 30 and 31.

Over rough broken bench land through medium growth of scrub timber and short undergrowth.

7.56 Top of ledge and rim of box canyon, bears NE. and SW.; vertical ledges make chaining impracticable, I therefore triangulate as follows:

Set point "A" on line west and erect flag "B" at this point, then from "A"



measure base line "AC", N. 4° 36' E., 3.00 chs. (unable to secure longer base). The line "CB" bears S. 81° 50' E. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 21.08 chs.

17.00 Approximate distance to bottom of box canyon, 250 ft. deep, drains NE.

28.64 Point of triangulation on west rim of canyon, bears NE. and SW.; continue over broken bench.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground over a cement (X) set in solid rock and 16 ins. in a mound of stone for $\frac{1}{2}$ sec. cor., with brass cap marked

SUBDIVISION OF T. 27 S., R. 21 E.

Chains

units

$\frac{1}{4}$ S30

S31

1927

from which

A pinon, 8 ins.diam., bears S.39 $\frac{1}{2}$ °E., 60 lks.

dist., marked $\frac{1}{4}$ S 31 B T

A juniper, 8 ins.diam., bears N.38°W., 83 lks.

dist., marked $\frac{1}{4}$ S 30 B T

50.70 Rise, bears NE. and SE., descend over series of small ledges bearing NE. and SW.

60.10 Edge of ledge, 60 ft. high, bears NE. and SW.

67.94 Point for the closing cor. of secs. 30 and 31 will fall on inaccessible break of bench where cor. cannot be set; therefore, at this point,

Set an iron post, 3 ft. long, $\frac{1}{2}$ in. in dia., 4 ins. in the ground over a cross (X) cut in solid rock and 26 ins. in a mound of stone for witness cor. to the closing cor. of secs. 30 and 31, with brass cap marked

T27S	T27S	
WC	S30	CC
S25	S31	
R20E	R21E	

1927

from which

A scrub pinon, 5 ins.diam., bears N.6 $\frac{1}{2}$ °E., 80 lks.
dist., marked BT

A pinon, 8 ins.diam., bears S.9°E., 179 lks.
dist., marked T27S R21E S31 WOC BT

The regulation 2 inch iron post was not available for use at this cor.

68.57 Top of high ledge and rim of bench, bears NE. and SW.

The line west to the west boundary of the Tp. passes over high ledges and breaks of bench and is inaccessible; therefore to reach the Tp. bdy. I offset as follows:

South, 5.14 chs., then on offset line

Chains

West, 7.57 to

76.14

(Counted from sec. cor.) Intersect W. bdy. of the Tp. at the true point for the cor. of secs. 25 and 36, T. 27 S., R. 20 E. and 11 lks. N. of the witness cor. to said sec. cor. True point for the closing cor. of secs. 30 and 31, 5.14 chs. N. of this point falls on inaccessible break of mesa and cannot be reached. Land, rolling and broken bench, cut by deep canyons and broken by high ledges; general NE. exposure and drainage. Soil, shallow sand and sandstone rock; 4th. rate. Timber, juniper and pines. Undergrowth, yellow top, black brush, mountain rush and grass.

From the cor. of secs. 29, 30, 31, and 32.

N. 0° 10' W. bet. secs. 29 and 30.

Over bench through scrub timber and short undergrowth.

1.50

Top of ledge and rim of bench, bears NE. and SW.; precipitous descent over ledges and across deep canyon makes chaining impracticable; therefore I return to the cor. of secs. 29, 30, 31, and 32 and triangulate as follows:

Set flag "A" on line N.

then measure base line

west, 7.555 chs. to

point "B". The line

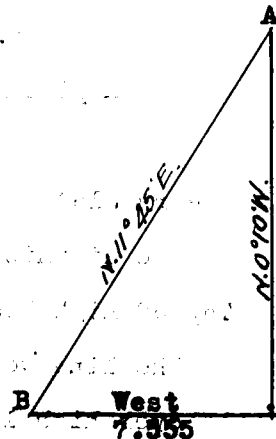
BA bears N. 11° 45' E.

All bearings taken by

direct reading of the

solar and angles checked

by deflection.



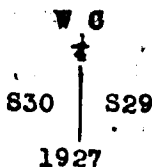
Distance by triangulation = 35.82 chs.
Distance by return measurement .04 "
35.78 "

Chains

20.00 Approximate distance to bottom of canyon, 400 ft. deep, chains NE. (X) above a rock corner at the

35.78 Top of narrow neck of bench or Hatch Point, projects NE. Point for 1 sec. cor. at 40.00 chs. will fall on inaccessible break of bench where cor. cannot be set; therefore, at this point,

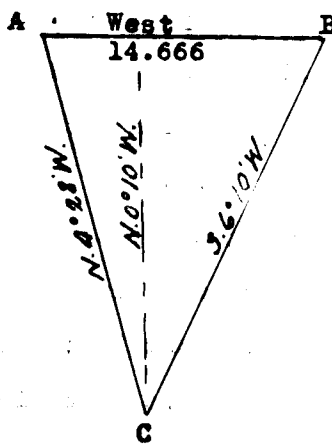
Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and over a cross (X) cut in same, and 12 ins. in a mound of stone for witness 1 sec. cor., with brass cap marked



From this witness corner. The line descends over ledges and precipitous talus slope and chaining is impracticable; I therefore triangulate as follows:

Set flag "A", N. 4° 28' W.

and erect flag "C" at this point; then from "A" measure base line East, 14.666 chs. to point "B". The line "BC" bears S. 6° 10' W.



All bearings determined by direct reading of the solar and angles checked by deflection.

Distance on line to point C = 35.78 chs.
Distance CA by triangulation = 79.02 chs.
or westing of 6.15 chs. and northing of 78.78 chs.
Total northing to point "A" = 114.56 "

Offset east, 5.925 chs. to true line or point N. 0° 10' W. of witness 1 sec. bet. secs. 29 and 30; thence by return measurement, S. 0° 10' E. 34.56 "
80.00 "

80.00 On gentle N. slope, 1100 ft. below rim of bench.

SUBDIVISION OF T. 27 S. R. 31 E.

Chains

Chains

Set an iron post, 3 ft. long, 2 ins. in dia., 15 in. in the ground over a cross (X) set in solid rock and 15 ins. in a mound of stone for cor. of secs. 19, 20, 29, and 30, with brass cap marked

T27S R31E
S19 S20

S30 S29

1927

Land, rough, rugged breaks of bench; general N. exposure and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

Timber, scrub juniper and pinon on bench.

Undergrowth, shadscale, yellow top, black brush and mountain rush.

S.89°55'E., on a random line bet. secs. 20 and 29 for signal set 8.37 chs. N.89°55'W. of the cor. of secs. 20, 21, 28, and 29 which is visible.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

45.00 Line ascends talus slope and high ledge rim of bench up which I cannot chain; therefore triangulate as follows:

Designate flag on

random line on bench

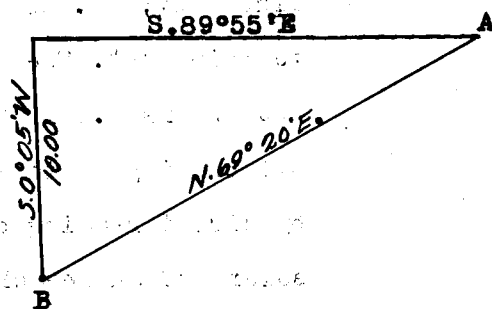
to east "A"; then

measure base line

S.0°05'W., 10.00 chs.

to point "B". The

line "BA" bears N.69°20'E. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation = 26.39 chs.

71.39 To point "A" on bench.

79.76 Intersect the cor. of secs. 20, 21, 28, and 29.

Thence

N.89°55'W., on true line bet. secs. 20 and 29.

Descend over broken bench through scattered timber and

39
SUBDIVISION OF T.27 S. R.21 E.

Chains

~~short undergrowth.~~

- 8.37 Point of triangulation on top of ledge, 300 ft. high and rim of bench, bears NW. and SE.; precipitous descent of 900 ft. over ledges and talus slope to
- 34.76 Point of triangulation at foot of talus slope; thence over broken ground.
- 39.88 Set an iron post, 3 ft. long, 2 ins. in dia., 5 ins. in the ground over a cross (X) cut in solid rock and 25 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked (No 1 in. iron post available)
- $$\begin{array}{r} \text{S20} \\ \hline \frac{1}{4} \\ \text{S29} \\ 1927 \end{array}$$
- 53.75 Bottom of canyon and wash, 40 lks. wide, 20 ft. deep, drains NW.; thence along gentle N. slope.
- 60.65 Wash, 20 lks. wide, 3 ft. deep, drains NW.
- 79.76 The cor. of secs. 19, 20, 29, and 30.
- Land, rolling bench, rough breaks of bench and rolling and broken bottom lands; general N. exposure and NW. drainage.
- Soil, shallow sand, clay and sandstone rock; 4th. rate.
- Timber, juniper and pinon on E. 8.37 chs.
- Undergrowth, shadscale, yellow top, black brush and mountain rush.
-
- West, on true line bet. secs. 19 and 30.
- Over rough broken ground through short undergrowth.
- 1.20 Wash, 50 lks. wide, 5 ft. deep, at foot of talus slope, drains NE.
- Line west ascends precipitous talus slope and ledges, over which it is impracticable to chain; I therefore triangulate as follows:
- From a point, 9.30 chs. east of the cor. of secs. 19, 20, 29, and 30 set flag "A" on line west; then measure base line south, 10.00 chs. distant. From

SUBDIVISION OF S. 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Chains

south end of base

flag "A" bears

N. 78° 25' W. All

bearings taken by direct

reading of the solar and

angles checked by deflection.

Distance by triangulation = 48.79 chs.

Subtract 9.30 "

Distance by return measurement 39.49 "

39.45 "

39.45 Point for $\frac{1}{4}$ sec. cor. will fall on face of sandstone butte bearing NE. and SW. where cor. cannot be set; therefore, at this point,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

WC $\frac{1}{4}$ S19
S30
1927

Cor. stands at base of sandstone butte, bears NE. and SW.

To determine distance to top of butte, I return to my point 9.30 chs. east of the cor. of secs. 19, 20, 29, and 30 and triangulate as follows:

Set flag "A" on line

west, then from the

south end of the base

line used in the previous

triangulation on this mile

find that flag "A" bears

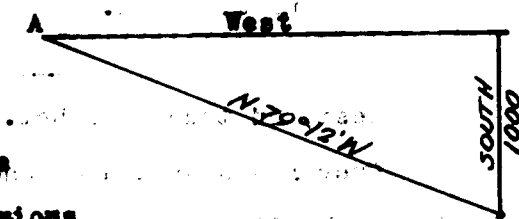
N. 79° 12' W.

Distance by triangulation = 52.42 chs.

Subtract 9.30 "

40.00 Point for $\frac{1}{4}$ sec. cor. on ledge.
43.12 Point of triangulation on sandstone butte, 1500 ft.

above sec. cor., bears NE. and SW. The line west

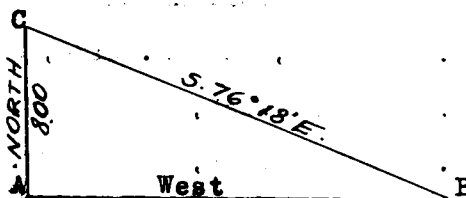


.. SUBDIVISION OF T.27 S., R.21 E.

Chains

passes over rugged country which make chaining impracticable; I therefore triangulate as follows:

Set flag "A" on line west, and erect flag "B" at this point; then from "A" measure base line



"AC", north, 8.00 chs. to point "C". The line "CB" bears S. 76° 18' E. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation "AB"	= 32.82 chs.
Distance on line to B	= 43.12 "
Distance to "A"	= 75.94 "
Distance by return measurement	= .07 "
	<u>75.87 "</u>

75.87 Intersect W. bdy. of the Tp. 5.24 chs. N. of the cor. of secs. 24 and 25 on the E. bdy. of T.27 S., R.20 E., which is an iron post, 2 ins. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T.27 S., R.20 E., book "D", this group.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for closing cor. of secs. 19 and 30, with brass cap marked

T27S	T27S	
	S19	
S24	S30	CC
R20E	R21E	

1927

Land, rough and rugged; broken by sandstone ledges and outcroppings; general N. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Undergrowth, shadscale, black brush, and mountain rush.

SURVEY OF T. 27 N., R. 21 E.

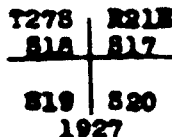
Chains

enclad

- From the cor. of secs. 19, 20, 21, and 22.
 E. 6° 10' W., bet. secs. 19 and 20.
 Over rolling and broken ground through short undergrowth.
 4.00 Wash, 40 lks. wide, 3 ft. deep, drains NE.
 16.10 Same wash, drains NE.
 32.50 Same wash, drains NE.
 34.48 From this point a spring of good water, bears S. 87° E.,
 8.77 chs. distant.
 40.00 On E. slope of large draw.
 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in
 the ground over a cross (X) cut in solid rock and
 22 ins. in a mound of stone for $\frac{1}{2}$ sec. cor., with
 brass cap marked



- 48.00 Bottom of large draw and wash, 40 lks. wide, 15 ft. deep,
 drains NW.; thence along SW. and W. slopes.
 53.10 Wash, 20 lks. wide, 4 ft. deep, drains W.
 61.00 Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in
 the ground over a cross (X) cut in solid rock and 24
 ins. in a mound of stone for cor. of secs. 17, 18, 19,
 and 20, with brass cap marked



Land, rolling and broken; general NW. exposure and drain-
 age.

Soil, sandy and rocky of sandstone formation; 4th. rate.
 No timber.

Undergrowth, shadscale, mountain rush, yellow top and
 grass.

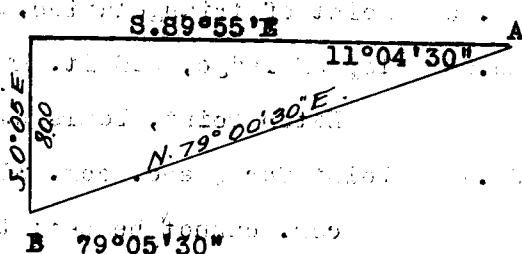
S. 87° 10' E., on a random line bet. secs. 17 and 20.

RECORD OF SURVEY OF THE

Chains

Line east ascends high ledge rim of bench and over precipitous talus slope making chaining impracticable; therefore, I triangulate as follows:

Set flag "A" on random line to the east, then measure base line, S.0°05'E., 8.00 chs. distant to point "B". The



line "BA" bears N.79°00'30" E. and the angles subtended at "A" and "B" are 11°04'30" and 79°05'30" respectively. All bearings taken by direct reading of the solar and angles checked by deflection.

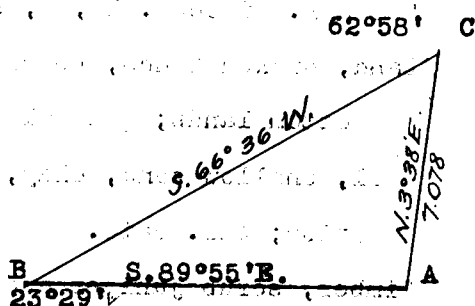
Distance by triangulation = 40.89 chs.

40.00 Point for temp. $\frac{1}{4}$ sec. cor. on face ledge, unable to set temp. cor. at this point.

40.89 Point of triangulation; set temp. $\frac{1}{4}$ sec. cor.

Line east passes over bend in bench rimmed with high ledges over which I cannot chain; I triangulate to the east as follows:

Set point "A" on random line east, and erect flag "B" at this point; then from "A" measure base line



"AC", N.3°38'E., 7.078 chs. The line "CB" bears S.66°36'W. and the angles subtended at B and C are 23°29' and 62°58' respectively. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 15.82 chs.

79.66 Intersect N. and S. line 44 lks. S. of the cor. of secs. 16, 17, 20, and 21.

SUBDIVISION OF T-27 S., R-21 E.

512120

Chains

Thence

S.89°46'W., on true line bet. secs. 17 and 20.

Over rocky bench through medium growth of scrub timber.

Gradually descend.

22.95 Point of triangulation, bears 31 lks. S.

25.00 Top of ledge, 300 ft. high and rim of bench known as

Hatch Point, bears NW. and SE.; thence by triangulation

38.70 Point for $\frac{1}{4}$ sec. cor. will fall on face of ledge where

cor. cannot be set; therefore, at this point,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in

a mound of stone over a cross (X) cut in solid rock

for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap

marked

$$\begin{array}{r} \text{WC } \frac{1}{4} \\ \hline \text{S17} \\ \text{S20} \\ 1927 \end{array}$$

38.77 Point of bench or Hatch Point, projects S. about 2 chs.

distant; also, top of ledge about 300 ft. high, bears

N. and S.; descend high ledges and precipitous talus

slope

39.83 Point for $\frac{1}{4}$ sec. cor. falls on ledge.

65.00 Base of talus slope; thence over broken ground.

79.66 The cor. of secs. 17, 18, 19, and 20.

Land, broken bench, rough breaks and rolling and broken

bottom lands; general NW. exposure and drainage.

Soil, shallow sand, clay, and rocky of sandstone formation; 4th. rate.

Timber, scrub juniper and pinon on E. 25.00 chs.

Undergrowth, black brush, shadscale and mountain rush.

West, on true line bet. secs. 18 and 19.

Over rolling and broken ground through short undergrowth

4.00 Wash, 30 lks. wide, 4 ft. deep, drains SW.; gradually

ascend.

22.10 Spur, projects SW.; descend 100 ft. over series of small ledges.

SUBDIVISION OF T.27 S., R.21 E.

Chains

24.00 Base of ledges, bears N. and S.; thence over gentle W. slope.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S18

S19

1927

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

53.90 Wash, 1 ch. wide, 8 ft. deep, drains SW.; thence along SW. slope.

75.60 Intersect W. bdy. of the Tp., 5.32 chs. north of the cor. of secs. 13 and 24, E. bdy. T.27 S., R.20 E., which is an iron post, 2 ins. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T.27 S., R.20 E., book "D" this group.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for closing cor. of secs. 18 and 19, with brass cap marked.

T27S	T27S	
S13	S18	
		CC
R20E	S19	
	R21E	

1927

from which

A sandstone ledge, marked CC S19 X BO, bears

S.75°15'E., 199 lks. distant.

Deposit a sandstone, 8x6x5 ins., marked with a cross (X) on one face at base of monument.

Land, rolling; general W. exposure and drainage.

Soil, shallow sand, clay, and rocky of sandstone formation;

2nd. to 4th. rates.

No timber.

Undergrowth, shadscale, yellow top, mountain rush, and grass.

SUBDIVISION OF T.37 S., R.21 E.

Chains

From the cor. of secs. 17, 18, 19, and 20.

N.0°10'W., bet. secs. 17 and 18.

Ascend general W. slope over rolling and broken ground through short undergrowth.

17.00 Draw, drains SW.; begin ascent over steep talus slope.

20.00 Spur, projects SW.; descend.

30.00 Draw, drains SW.; ascend.

40.00 On steep talus slope.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S18 | S17

1927

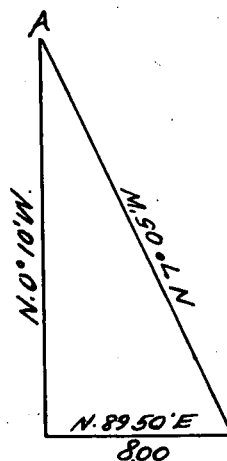
The line north ascends high ledges and breaks of bench up which I cannot chain; therefore, I triangulate as follows:

Set flag "A" on line to the north; then return to cor. of secs. 17, 18, 19 and 20 in order to obtain suitable base and from which point measure base N.89°50'E., 8.00 chs.

From E. end of base flag

"A" bears N.7°05'W. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 65.95 chs.



65.95 Point of triangulation on top of ledge 300 ft. high, and rim of Hatch Point, bears NW. and SE., 1300 ft. above sec. cor.; thence across point of bench projecting W. about 10 chs, distant.

SUBDIVISION OF T.27 S., R.21 E.

Chains

69.72 Top of ledge, 275 ft. high and rim of Hatch Point,
bears NE. and SW. Set flag for future reference.

The line N. descends high ledges and precipitous
talus slope down which I cannot chain; therefore

triangulate as follows:

Set flag "A" on line

to the N. and designate

the flag at this point

"B". From "A" measure

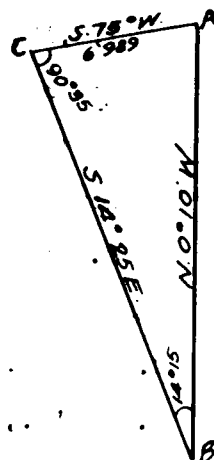
base line, S.75°W.,

6.989 chs. to point

"C". The line "CB"

bears S.14°25'E. and

the angles at "B" and "C" determined by repetition
are 14°15' and 90°35' respectively.



Distance on line to "B"	= 69.72 chs.
Distance line "AB" by triangulation	= 28.39 "
Distance on line to "A"	98.11 "
Distance by return measurement	9.44 "
	88.67 "

80.00 Point for cor. of secs. 7,8,17, and 18 falls on in-
accessible talus slope where cor. cannot be set.

88.67 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in
a mound of stone over a cross (X) on solid rock for
witness cor. to the cor. of secs. 7,8,17, and 18,
with brass cap marked

T27S	R21E
S7	S8
S18	S17
WC	
1927	

Land, rolling, broken, steep talus slopes and high ledge
rims; general W. exposure and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

No timber.

Undergrowth, shadscale, mountain rush and black brush.

SUBDIVISION OF T.27 S. R.21 E.

Chains

aligned

N.89°46'E., on a random line bet. secs. 8 and 17. 39.90

It is impossible to run east from the true point for the cor. of secs. 7,8,17 and 18 and impracticable to proceed from the witness cor. to the cor. of secs. 7,8,17, and 18 on account of precipitous talus slope and high ledge rims; therefore, I begin at my point left at 69.72 chs. on line bet. secs. 17 and 18, heretofore described and which is 10.28 chs. S.0°10'E. of true point for cor. of secs. 7,8,17, and 18.

Thence

N.89°46'E., on offset line, 21.10 chs., then

N.0°10'W., 10.28 chs. to true random line at

21.10 Thence N.89°46'E. on random line.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.88 Intersect N. and S. line 7 lks. N. of the cor. of secs. 8,9,16, and 17.

Thence

S.89°49'W., on true line bet. secs. 8 and 17.

Over rolling and broken bench through medium growth of scrub timber and short undergrowth.

39.94 On surface rock, mark a cross (X), over which.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

68

S17

1927

from which

A pinon, 10 ins.diam., bears N.50°45'E., 86 lks. dist., marked $\frac{1}{4}$ S 8 B-T

A pinon, 3 ins.diam., bears S.18°45'W., 73 lks. distant, marked BT

58.78 Top of ledge, 275 ft. high and rim of bench of Hatch Point, bears NE. and SW.; line west descends high ledges and precipitous talus slope over which measurement cannot be made; thence on offset line,

SHERIDAN DIVISION OF T. 27 N. 61 E. 21 E.

Chains

from S. 89° 49' W., 10.28 chs., then south to corner

S. 89° 49' W., 21.10 chs. to

79.88 Intersect line bet. secs. 17 and 18 at the flag at 69.72 chs. or 10.28 chs. S. 0° 10' E. of true point for cor. of secs. 7, 8, 17, and 18. Impossible to reach true cor. point on account of ledges and talus slope.

Land, rolling and broken bench; rough breaks and talus slopes; general W. exposure and drainage. Soil, shallow sand and sandstone rock; 4th. rate.

Timber, scrub juniper and pinon on bench.

Undergrowth, black brush and mountain rush.

West, on true line bet. secs. 7 and 18.

Being unable to proceed from the true point for the cor. of secs. 7, 8, 17, and 18 on account of inaccessible ledges and talus slope I establish the line bet. secs. 7 and 18 as follows:

Set point "A", N. 0° 10' W.,

9.41 chs. distant from the witness cor. to the cor. of secs. 7, 8, 17, and 18, or 18.08 chs. from true cor. point; from "A"

set flag "B", S. 69° 46' W.,

and designate flag at 69.72 chs. on line bet. secs.

17 and 18 "C". Base line "AC" bears N. 0° 10' W., 28.36 chs. and the line "BC" bears S. 78° 42' E.

Distance by triangulation line "BC" = 50.93 chs. or

easting of 49.94 chs. and southing of 9.98 chs. from

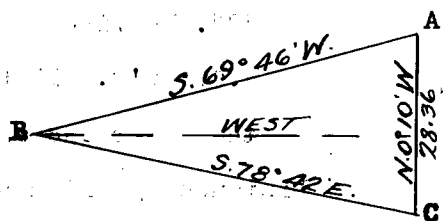
"B"; also, 10.28 chs. - 9.98 chs. = .30 chs. the

distance "B" is south of true line. I now offset

North, .30 chs.; thence east by return measurement

9.94 chs. to

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in



SUBDIVISION OF T.27 S., R.20 E.

Chains

am1ad3

a mound of stone over a cross (X) cut in solid rock
for $\frac{1}{4}$ sec. cor., with brass cap marked

87

 $\frac{1}{4}$

818

1927

Note: The east half of this mile passes over precipitous
talus slope and high ledges facing N. and W.

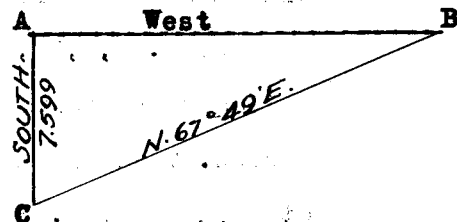
42.25 Bottom of draw and wash, 20 lks. wide, 4 ft. deep, drain
N.10°E.; ascend.

49.94 Point of triangulation on spur, projects N. 30 lks. S.
rough, broken ground.

55.65 Precipitous descent over series of high ledges down
which I cannot chain, bears N. and S.; to determine
distance to the west, I triangulate as follows:

Set flag "A" on line west

and erect flag "B" at
this point; then from
"A" measure base line
south, 7.599 chs. to
"C". The line "CB" bears



N.67°49'E. All bearings taken by direct reading of
the solar and angles checked by deflection.

Distance by triangulation = 18.64 chs.

65.35 Approximate distance to base of ledges, bears N. and S.

74.29 W. Point of triangulation.

75.37 Intersect W. bdy. of the Tp., 5.64 chs. north of the
cor. of secs. 12 and 13, which is an iron post, 2 ins.
in dia., firmly set, and marked and witnessed as
described in the field notes of the survey of T.27 S.
R.20 E., book "D" this group.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins.
in the ground over a cross (X) cut in solid rock and
24 ins. in a mound of stone for closing cor. of secs.
7 and 18 with brass cap marked

S. 12. SUBDIVISION OF T. 113 N., R. 21 E.

Chains

T278 | R278 ✓

S12 | S18

S12 | S18

1927

Land, rough and broken; general W. exposure and drainage.

Soil, shallow sand, clay and rocky of sandstone formation; 4th. rate.

No timber.

Undergrowth, shadscale and yellow top.

N.0°10'W., bet. sec. 7 and 8.

Being unable to begin at the true point for the cor. of secs. 7, 8, 17, and 18 which falls on inaccessible ground, I commence at the witness cor. to said sec. cor. which is 8.67 chs. N.0°10'W. of the true cor. point; thence

N.0°10'W., counting distances from the true cor. point.

Descend over rough broken ground through short undergrowth.

30.70 Wash, 20 lks. wide, 6 ft. deep, in draw, 100 ft. below witness cor., drains NW.; ascend.

35.10 Low spur, projects NW.; gradually descend.

40.00 On gentle NW. slope.

Set an iron post, 3 ft. long, 1 in. in dia., 15 ins. in the ground over a cross (X) cut in solid rock and 15 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

S7 | S8

1927

50.10 Wash, 20 lks. wide, 5 ft. deep, in draw, drains W.

57.00 Trail, bears E. and W.

65.00 Wash, 50 lks. wide, 4 ft. deep, in draw, drains S.80°W.; gradually ascend S. slope.

80.00 Point for cor. of secs. 5, 6, 7, and 8 falls on sloping sandstone surface rock where I am unable to perpetuate cor. Witness cor. established 11 lks. N.0°10'W.;

... (2) SUBDIVISION OF 2.27 AC. S. 21 E.

Chains

aniano

for description of cor. see line bet. secs. 5 and 6.

Land, rolling and broken; general W. exposure and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

No timber.

Undergrowth, shadscale and yellow top.

From true cor. point for cor. of secs. 5, 6, 7, and 8,

S. 89° 56' E., on a random line bet. secs. 5 and 8 for

a flag 83 lks. E. of

visible signal at the cor. of secs. 4, 5, 8, and 9.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

56.00 Line east ascends high ledges up which it is impracticable to chain; therefore triangulate as follows:

From true point for cor.

secs. 5, 6, 7, and 8, flag
83 lks. E. of cor. of
secs. 4, 5, 8, and 9

bears S. 89° 56' E.

Measure base line

N. 0° 10' W., 82.25 chs.

and from N. end of

base find that the flag
83 lks. E. of the
cor. of secs. 4, 5, 8,and 9 bears S. 44° 29' E. All bearings taken by direct
reading of the solar and angles checked by deflection.

Distance by triangulation

= 80.63 chs.

Distance by return measurement

= $\frac{80.63}{79.80}$ chs.

79.80 Intersect the cor. of secs. 4, 5, 8, and 9.

Thence

N. 89° 56' W., on true line bet. secs. 5 and 8.

Descend abruptly from top of spur projecting N., over
precipitous W. slope broken by series of sandstone
ledges bearing N. and S.

2.00 Trail, bears NE. and SW.

23.80 Base of ledges, bears N. and S.; thence over rolling and
broken land sloping SW.

SUBDIVISION OF T. 23 S., R. 21 E.

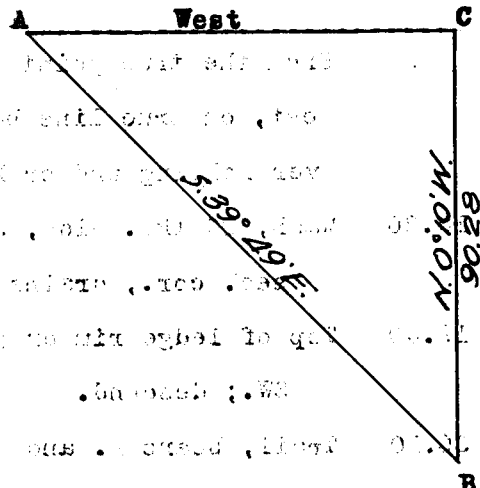
Chains	
33.20	Snowden, McSwain, abandoned oil well, bears N.3°05'W.
39.96	Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for $\frac{1}{2}$ sec. cor., with brass cap marked
42.40	Wash, 30 lks. wide, 2 ft. deep, in draw, drains SW.; gradually ascend.
48.70	Spur, projects SW.; descend 100 ft. to
67.65	Wash, 20 lks. wide, 3 ft. deep, in draw, drains SW.; thence along S. slope.
79.80	The true point for the cor. of secs. 5, 6, 7, and 8. Land, rough, rugged slopes facing W. and rolling and broken bench; general W. drainage. Soil, shallow sand, clay and sandstone rock, 4th. rate. No timber. Undergrowth, shadscale and yellow top.
10.80	From the true point for the cor. of secs. 5, 6, 7, and 8. West, on true line bet. sec's. 6 and 7. Over rolling and broken land through short undergrowth. Wash, 20 lks. wide, 3 ft. deep, in draw 100 ft. below sec. cor., drains SW.; ascend.
19.40	Top of ledge rim or point, 50 ft. high, bears NE. and SW.; descend.
30.10	Trail, bears N. and S.
37.70	Wash, 3 chs. wide, 1 ft. deep, in draw, 150 ft. below rim, drains N.75°W.
40.00	In draw. Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{2}$ sec. cor., with brass cap marked
	<u>S6</u> ✓
	1927
	Deposit a sandstone, 8x6x3 ins., marked with a cross (X)

SUBDIVISION OF T. 27 S., R. 12 E., S. 12 N.

Chains

entire

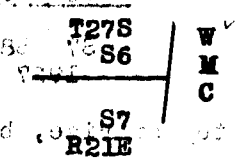
- On one face at base of monument, 1890, subwona 23.35
- A cottonwood, 3 ins. diam., bears S. 65° E., 20 lbs. 25
- dist. marked S. 6° E. 7
- 45.98 Set an iron post, 3 ft. long, 1 in. in dia. 30 ins. in the ground for witness cor. to the meander cor. of secs. 5 and 7 on the left bank of the Colorado River, with brass cap marked
- W T276
M 86
C 87
R21E
1927
- 46.08 Impracticable to build accessories to cor. Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 6 and 7; impracticable to establish cor. at this point as same might be washed away.
- To determine distance across river, I triangulate as follows:
- Set flag "A" on line west. Designate flag at 69.72 chs. bet. secs. 17 and 18 "B" and true point for cor. of secs. 5, 6, 7, and 8, "C". Base line "BC" bears N. 0° 10' W., 90.28 chs. and line "AB" bears S. 39° 49' E. All bearings taken by direct reading of the solar and angles checked by deflection.
- Distance by triangulation = 73.59 chs.
Distance by return measurement = 15.78
59.22
- 59.22 Intersect mean high water mark on the right bank of the Colorado River; impracticable to establish meander cor. at this point as it might be washed away.



SUBDIVISION OF T.27 S., R.21 E.

Chains

59.32 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 6 and 7 on the right bank of the Colorado River, with brass cap marked



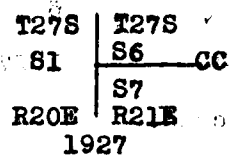
1927

Deposit a sandstone, 8x8x8 ins., marked with a cross (X) on one face at base of monument.

74.99 Intersect W. bdy. of the Tp., 5.73 chs. north of the cor., of secs. 1 and 12, which is an iron post, 2 ins. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T.27 S., R.20 E., book "D" this group.

At point of intersection.

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for closing cor. of secs. 6 and 7, with brass cap marked



Deposit a sandstone, 16x16x10 ins., marked with a cross (X) on one face at base of monument.

Land, rolling and broken; general SW. drainage.

Soil, shallow to deep sand, clay and rocky of sandstone formation; 2nd. to 4th. rates.

Timber, a few cottonwood along Colorado River.

Undergrowth, shadescale and yellow top with willows along river.

From the true point for the cor. of secs. 5, 6, 7, and 8.

N10°10'W, on true line bet. secs. 5 and 6.

Over rolling and broken ground through short undergrowth.

.11 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in

SURVEY OF S. 22 S., R. 21 E.

Chains

ended

a mound of stone over a cross (X) cut in solid rock
for witness cor. to the cor. of sec. 5, 6, 7, and 8
with brass cap marked

T278	R21E
S6	S5
wc	
S7	S8
1927	

Cor. stands on top of rise, bears E. and W.; descend
over series of ledges bearing E. and W.

- 7.40 Base of ledges, bears E. and W.
8.50 Wash, 30 lks. wide, 3 ft. deep, in draw, 150 ft. below
rise, drains W.; ascend S. slope.
23.80 Road, bears NE. and SW.
24.00 Wash, 20 lks. wide, 3 ft. deep, drains W.
35.85 Ridge, 150 ft. above draw, bears E. and W.; descend.
40.00 In small draw draining W.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone over a cross (X) cut in solid rock
for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
S6 | S5
1927

Gradually ascend.

- 65.20 Top of slope, 180 ft. above $\frac{1}{4}$ sec. cor., bears E. and
W.; thence over limestone bench on near level line to
82.25 Intersect N. bdy. of the Tp. 2.36 chs. east of the $\frac{1}{4}$
sec. cor. S. bdy. sec. 31, T.26 S., R.21 E., which is
an iron post, 1 in. in dia., firmly set, with brass
cap marked

$\frac{1}{4}$ S31

1926

A marked sandstone deposited at base of monument.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.

SEVENTH-SHAFFROD MONITOR MOUNTAIN, TO LINDEN HILL
T. 26 S., R. 21 E. T. 27 S., R. 21 E.

Chains

one bearing from a mound of stone over a cross (X) cut in solid
to section black rock for closing corners of secs. 5 and 6, with brass
cap marked T. 26 S., R. 21 E.

at T. 26 S. R. 21 E.
S31
S6 S5
T27 S R21 E
CC
1927

Land, rolling and broken; general W. exposure and drain-
age.

Soil, shallow sand, clay and sandstone rock; 4th. rate.
No timber.

Undergrowth, shadscale and yellow top.

**ESTABLISHMENT OF QUARTER-SECTION CORNERS
BETWEEN CLOSING CORNERS ON THE NORTH
BOUNDARY OF T. 27 S., R. 21 E.**

At a point 1.65½ chs. east of the cor. of secs. 35 and
36 on the S. bdy. of T. 26 S., R. 21 E. which is an
iron post, 2 ins. in dia., firmly set, and marked
an witnessed as described in the official field
notes of the survey of T. 26 S., R. 21 E.; said point
being the mean distance bet. the true point for the
cor. of Tp. 27 S., Rs. 21 and 22 E. and the closing
cor. of secs. 1 and 2, T. 27 S., R. 21 E.;

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone over a cross (X) cut in solid rock
for sec. cor. N. bdy. sec. 1, T. 27 S., R. 21 E.,
with brass cap marked

† S1
1927

At a point, 2.16 chs. east of the cor. of secs. 34 and
35 on the S. bdy. of Tp. 26 S., R. 21 E., which is an

ESTABLISHMENT OF QUARTER SECTION CORNERS BETWEEN
CLOSING CORNERS, NORTH BOUNDARY T.26 S., R.21 E.

Chains

attached

iron post, 2 ins. in dia., firmly set, and marked and
witnessed as described in the official field notes of
the survey of T.26 S., R.21 E.,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone over a cross (X) cut in solid rock
for witness $\frac{1}{4}$ sec. cor. N. bdy. sec. 2, T.27 S., R.
21 E., with brass cap marked

WC $\frac{1}{4}$ S2
1927

The true point for the $\frac{1}{4}$ sec. cor. at the mean distance
bet. the closing cors. of secs. 1 and 2 and secs. 2
and 3, is .595 chs. west and falls on steep, sloping
surface rock where I am unable to perpetuate cor.

At a point 2.45 chs. east of the cor. of secs. 33 and
34, on the S. bdy. of T.26 S., R.21 E., which is an
iron post, 2 ins. in dia., firmly set, and marked
and witnessed as described in the official field
notes of the survey of T.26 S., R.21 E.,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
in a mound of stone over a cross (X) cut in solid
rock for witness $\frac{1}{4}$ sec. cor. N. bdy. sec. 3, T.27 S.,
R.21 E., with brass cap marked

WC $\frac{1}{4}$ S3
1927

The true point for the $\frac{1}{4}$ sec. cor. at the mean distance
bet. the closing cor. of secs. 2 and 3 and secs. 3
and 4 is .611 chs. west, and falls on steep, sloping
surface rock where I am unable to perpetuate cor.

At a point 2.11 chs. east of the cor. of secs. 32 and
33 on the S. bdy. of T.26 S., R.21 E., which is an
iron post, 2 ins. in dia., firmly set, and marked and
witnessed as described in the official field notes of

ESTABLISHMENT OF QUARTER SECTION CORNERS BETWEEN
CLOSING CORNERS, T.27 S., R.21 E.

Chains

chain 10

the survey of T.26 S., R.21 E., said point being the
mean distance between the closing cor. of secs. 3
and 4 and secs. 4 and 5, T.26 S., R.21 E.,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
the ground for $\frac{1}{4}$ sec. cor., N. bdy. sec. 4, T.27 S.,
R.21 E., with brass cap marked

$\frac{1}{4}$ S4
1927

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

At a point 2.26 chs. east of the cor. of secs. 31 and
32 on the S. bdy. of T.26 S., R.21 E., which is an
iron post, 2 ins. in dia., firmly set, and marked and
witnessed as described in the field notes of the
survey of T.26 S., R.21 E., said point being the mean
distance bet. the closing cor. of secs. 4 and 5 and
secs. 5 and 6, T.27 S., R.21 E.,

Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in
the ground over a cross (X) cut in solid rock and
20 ins. in a mound of stone for $\frac{1}{4}$ sec. cor. N. bdy.
sec. 5, T.27 S., R.21 E., with brass cap marked

$\frac{1}{4}$ S5
1927

At a point 2.36 chs. east of the cor. of Tp.26 S., Rs.
20 and 21 E. which is an iron post, 3 ins. in dia.,
firmly set, and marked and witnessed as described in
the official field notes of the survey of T.26 S., R.
21 E., said point being 40.00 chs. west of the closing
cor. of secs. 5 and 6, T.27 S., R.21 E.,

Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in
the ground on solid rock and 20 ins. in a mound of
stone for $\frac{1}{4}$ sec. cor. N. bdy. sec. 6, T.27 S., R.21 E.,
with brass cap marked

$\frac{1}{4}$ S6
1927

Chains

amist

Deposit a sandstone, 7 1/2 ins. marked with a cross (X) on one face at base of monument.

NOTE: For establishment of quarter-section corners between closing corners on the west boundary of the Tp., see survey of the east boundary of T.27 S., R.20 E., book "D" this group.

MEMBERS OF THE RIGHT BANK OF THE COLORADO RIVER, DOWN STREAM.

From the meander cor. of sec. 31, T.26 S., R.21 E. and sec. 6, T.27 S., R.21 E., on the right bank of the Colorado River, which is an iron post, 1 in. in dia., firmly set, with brass cap marked

T26SR21E	|	ME
S31		
S6		
T27SR21E		

1926

and witnessed by a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Thence with meanders in sec. 6.

S.19°30'W.,	6.30	chs.:	Along sandy bank through dense undergrowth.
S.8°15'W.,	16.10	"	Along limestone rim, 80 ft. high.
S.14°45'W.,	8.40	"	Along rocky bank through medium undergrowth.
S.16°45'W.,	12.00	"	At 11.00, wash 10 lms. wide from the west. Thence along sandy and gravelly bank to meander corner. Dense undergrowth.
S.11°15'W.,	9.00	"	
S.11°00'W.,	7.20	"	
S.12°30'W.,	4.00	"	

MEANDERS, T.27 S., R.21 E.

Chains

S.23°30'W., 18.70 chs.

S.21°30'W., 3.00 " To true point for the meander
cor. of secs. 6 and 7.

Land, level river bottom.

Soil, alluvial, sandy and gravelly; 1st. to 4th. rates.

No timber.

Undergrowth, willow.

Thence in sec. 7.

Along sandy bank through very dense undergrowth.

S.21°30'W., 1.90 chs.

S.25°30'W., 5.60 "

S.27°30'W., 7.80 "

S.28°00'W., 8.50 "

S.34°45'W., 4.30 "

S.39°45'W., 4.00 " To true point for the meander cor.
of secs. 7 and 12 on the right
bank of the Colorado River, des-
cribed in the field notes of the
survey of T.27 S., R.20 E., book
"D" this group.

MEANDERS OF THE LEFT BANK OF THE COLORADO RIVER,
UP STREAM

From the true point for the meander cor. of secs. 7 and
12 on the W. bdy. of T.27 S., R.21 E., described in
the field notes of the survey of the E. bdy. of T.
T.27 S., R.20 E., book "D" this group.

Thence with meanders in sec. 7.

Along rocky bank through medium short undergrowth.

N.64°15'E., 2.50 chs.

N.54°00'E., 9.80 "

N.49°15'E., 7.30 "

N.39°15'E., 9.80 "

N.27°00'E., 2.20 "

N.17°15'E., 7.70 "

MEASUREMENTS, T.27 S., R.21 E.

Chains

Chains

N.29°45'E., 2.40 chs.

N.13°45'E., 3.10 "

N.20°00'E., 3.60 "

N.22°45'E., 1.80 "

To true point for meander cor. of secs. 6 and 7.

Land, level.

Soil, rocky and alluvial; 4th. rate.

No timber.

Undergrowth, willow and brier brush.

Thence in sec. 6.

Along rocky bank through short undergrowth.

N.22°45'E., 3.00 chs.

N.17°45'E., 11.50 "

N.13°30'E., 7.80 "

N.10°00'E., 12.40 "

N.7° 00'E., 8.00 "

N.7° 30'E., 14.60 "

N.13°00'E., 3.10 "

End of course on loading dock of Snowden-McSweeney Oil Rig. Thence along sandy alluvial bank through dense undergrowth.

N.21°45'E., 2.90 "

N.5°00'E., 2.80 "

N.14°30'E., 6.00 "

N.8° 30'E., 5.20 "

N.11°45'E., 3.70 "

N.20°45'E., 3.80 "

To meander cor. sec. 31, T.26 S., R.21 E., and meander cor. sec. 6, T.27 S., R.21 E., which is an iron post, 1 in. in dia., firmly set, with brass cap marked

T26S

S31

S6

T27S

1926

and witnessed by a mound of stone, 3 ft. base, 2 ft. high, E. of cor.

Land, level.

Soil, sandy, alluvial and rock; 4th. rate.

MEANDERS, T.27 S., R.21 E.

No timber.

Undergrowth, willow and brier brush.

BOUNDARIES OF T.27 S., R.21 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Lines designated	True bearing	Dist-ances.	Latitudes		Departures	
			N	S	E	W
			chs	chs	chs	chs
E.bdy. T27SR21E	N.0°07'W.	40.06	40.06	.....	.....	.....09
"	N.0°09'W.	40.12	40.12	.....	.....	.11
"	N.0°08'W.	80.11	80.11	.....	.....	.19
"	N.0°09'W.	80.05	80.05	.....	.....	.21
"	N.0°10'W.	40.03	40.03	.....	.....	.12
"	N.0°07'W.	40.03	40.03	.....	.....	.08
"	N.0°05'W.	40.07	40.07	.....	.....	.06
"	N.0°09'W.	40.10	40.10	.....	.....	.11
"	N.0°03'W.	82.14	82.14	.....	.....	.07
N.bdy. T27SR21E	West	474.16	.....	.....	.....	474.16
W.bdy. T27SR21E	South	482.02	.....	482.02	.....	.....
S.bdy. T27SR21E	East	476.42	.....	.....	476.42	.....
Convergency			.....	.....	.....	.57
Totals			482.71	482.02	476.42	475.77
			<u>482.02</u>		<u>475.77</u>	
Error in latitude =			.69			
Error in departure					.65	

GENERAL DESCRIPTION

The land in this township consists of high mesas or bench lands, broken by ledges and cut by deep box canyons; all the lands have a general northwest exposure and drainage to the Colorado River. Hatch point in the south central portion of the township is a high bench rimmed with vertical walls of sandstone approximately 300 ft. high. The northwest portion of the township comprise the immediate breaks of the Colorado River which flows through the township in a southerly direction in secs. 6 and 7. The bench in the eastern and northeastern parts of the township is very rough and broken, rimmed with high

GENERAL DESCRIPTION

ledges on the west which form the breaks of Cane Springs Canyon and is locally known as "Back of the Rocks".

The Tp. is drained by Hunter Canyon in the extreme northeast corner, by Cane Springs Canyon in the east central portion and by a deep canyon in the extreme western portion.

The soil in Cane Springs Canyon and along the Colorado River in secs. 6 and 7 is a deep sand mixed with loose sandstone rock; on Hatch Point and Back of the Rocks it is a shallow sand lying on bedrock which in many places is exposed. The slopes of the canyons are rocky of sandstone formation containing some clay and sand.

Cottonwood trees are found scattered along Cane Springs Canyon and the Colorado River, while on the benches a scrub growth of juniper and pinon is found. The slopes of the canyons are as a rule void of any vegetation. The undergrowth in the township consists of a short shadscale, black brush, mountain rush, yellow top and some grass. Along the Colorado River willow and brier brush grows abundantly.

Trough Springs in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 35 is a small spring of good water which flows the entire year. Cane Springs wash carries as a rule a small stream of water, the amount of which depends upon the rainfall in the locality for which it forms a drain.

There are no settlers living in the township.

No surface indications of mineral or oil were noted.

A test oil well, however, was driven on the Snowden-McSweeney location in sec. 5; this well is now abandoned.

No magnetic declination was taken on account of defective needles.

TRIANGULATIONS.

For the most part the topography in the areas requiring triangulations is exceptionally rough and broken.

In general it is impracticable to secure long bases.

Therefore, the base is first selected to afford the best possible figure and all bases measured at least twice, and to tenths of links.

All angles are measured by at least three repetition for each angle, and the total angular value of each triangle was balanced to $180^{\circ}00'00''$. No angular closing error for any triangle exceeded $10''$. The bearings are checked by deflection.

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Page

STANLEY, O. Fredrick born, married 1904, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 25

BOOK A-496

~~4-680~~

4-680
(August 1928)

FIELD ASSISTANTS.

6—2764

**CERTIFICATE OF UNITED STATES SURVEYORS and
CADASTRAL ENGINEER.**

Carl S. Swanholm, U.S. Cadastral Engineer, and Robert C. Yundt

We Carl S. Swanholm and Chas. F. Moore, U. S. Surveyor, hereby certify upon honor that, in pursu-

of special instructions received from the District Cadastral Engineer for Utah

bearing date of the 8th day of March, 1926, ~~I~~^{we} have well, faithfully, and tr-

~~our~~^s in ~~my~~ own proper person, and in strict conformity with said instructions, the Manual of Surveying Instr-

tions, and the laws of the United States, surveyed all those parts or portions of Retracement of

East Boundary; establishment of quarter-section corners between

closing corners on the north boundary; and survey of the South

Boundary, Subdivision and Meanders, all in T.27 S., R.21 E.

of the Salt Lake Base

and Meridian, in the State of Utah, which are represented

the foregoing field notes as having been executed by ~~me~~^{us} and under ~~my~~^{our} direction; and that all the corner

said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instr-

tions, and the special written instructions of the District Cadastral Engineer for Utah

and in the specific manner described in the field notes, and that the foregoing are the original field notes

such survey. **Certified to at:**

Salt Lake City, UT. May 1, 1930

Carl S. Swanholm
U. S. Surveyor
Chas. F. Moore
U. S. Surveyor

APPROVAL.

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colorado March 25, 19

The foregoing field notes of the ~~survey~~ retracement of the east boundary; establish

of quarter section corners between closing corners on the north boundary; surve

of the south boundary, subdivision and meanders, T. 27 S., R. 21 E., S.L.B. & M

executed by Carl S. Swanholm, U.S. Cadastral Engineer, and Chas. F. Moore

Robert C. Yundt, U.S. Surveyors

under ~~his~~ special instructions dated March 8, 1926, having

critically examined, and the necessary corrections and explanations made, the said field notes, and the sur

they describe, are hereby approved.

Robert C. Yundt
U. S. Supervisor of Surveys

I certify that the foregoing transcript of the field notes of the above described surveys in

has been correctly copied from the original notes on file in this office.

U. S. Supervisor of Surveys

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Page



BOOK A-496

FIELD NOTES

OF THE SURVEY OF THE

RECEIVED

FEB 7 1930

Department Of The Interior

Public Survey Office

Salt Lake City, Utah

EAST AND WEST BOUNDARIES, SUBDIVISION AND MEANDERS,

AND ESTABLISHMENT OF QUARTER SECTION CORNERS

BETWEEN CLOSING CORNERS NORTH BOUNDARY

T.27 S., R.20 E.

Of the Salt Lake Base and Meridian,

the State of Utah

EXECUTED BY

Carl S. Swanholm, U.S. Cadastral Engineer
and

Elliot Bird, Chas F. Moore and Robert C. Yundt

the capacity of U. S. Surveyor ~~2~~, under instructions dated March 8 1926ed by the District Cadastral Engineer to govern surveys included in
up No. 176, which were approved by the Commissioner of the General Landce, March 24, 1926; assignment instructions dated April 1
and 10, 1926; supplemental assignment instructions dated July 19 and
26, 1926, November 27, 1926, May 10, 1927 and August 10, 1927, and
August 24, 1926.

Survey commenced October 10, 1926, 192

Survey completed November 21, 1927, 192

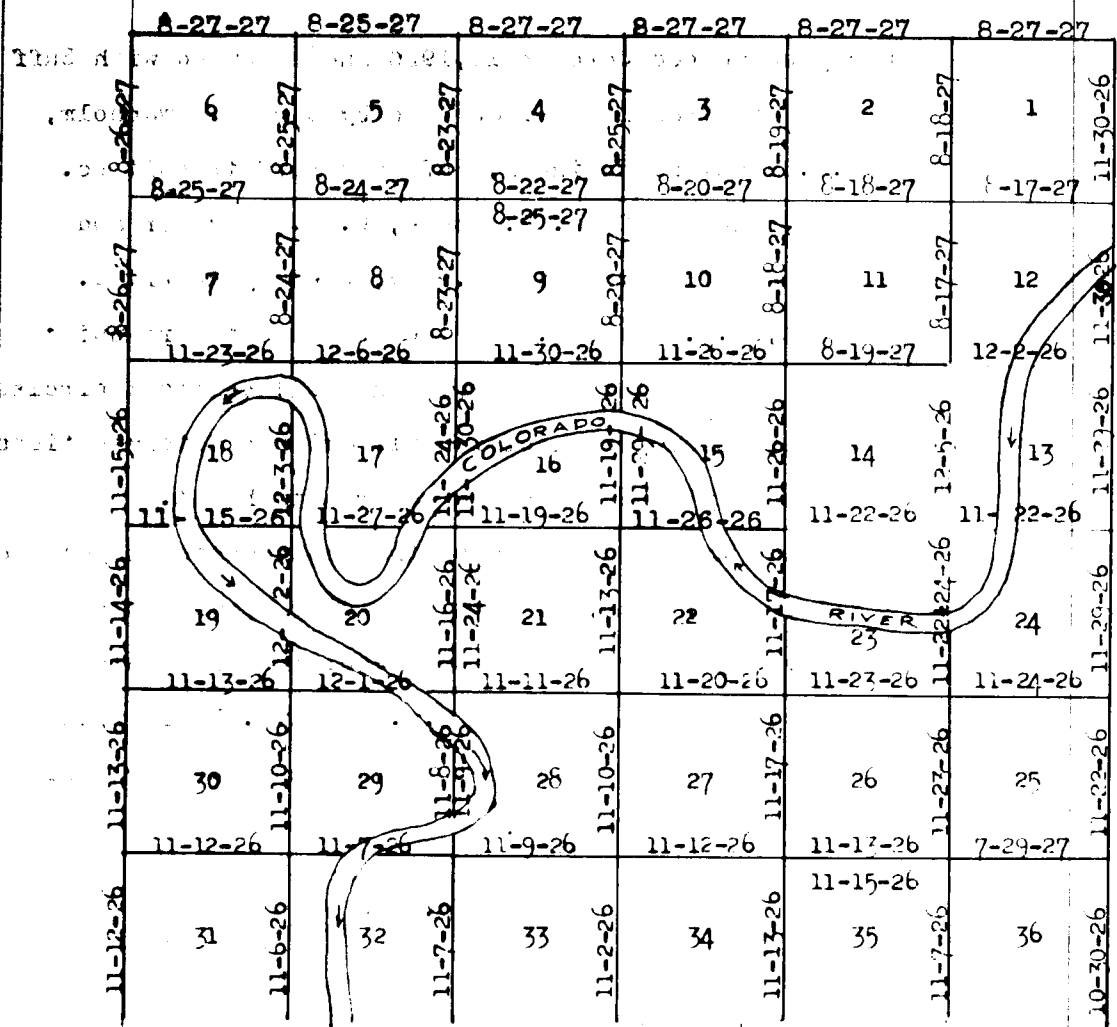
INDEX DIAGRAM.

		Township 27 South				Range 20 East, S.L.B. & M.			
		157	157	156	156	155	155	155	155
15		157							
		6 153	5 114	4 94	3 70	2 51	1 30		
13		151	149	112	92	69	50		
		7 146	8 111	9 91	10 68	11 49	12 26		
11		145	142	109	89	66	46		
		18 140	17 107	16 85	15 64	14 43	13 24		
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		31 116	32 95	33 72	34 52	35 31	36 18		

Meanders, page 158 to 177 inclusive.

T. 27 N., R. 20 E.

DATE DIAGRAM



Lines colored in black were surveyed by Chas F. Moore, U.S. Surveyor.

Lines colored in red were surveyed by Robert C. Yundt, U.S. Surveyor.

Lines colored in green were surveyed by Elliot Bird, U.S. Surveyor.

Meanders of the Colorado River were run by Carl S. Swanholm, U. S. Cadastral Engineer during the period from October 10, 1926 to November 21, 1927.

T.27 S. R.20 E.

TEST OF INSTRUMENTS

Survey commenced October 10, 1926 and executed with Buff and Buff transit No. 9983 used by Carl S. Swanhholm, U.S. Cadastral Engineer, Buff and Buff transit No. 9220, used by Chas. F. Moore, U. S. Surveyor and Buff and Buff transit No. 9797, used by Robert C. Yundt, U.S. Surveyor. All the instruments are equipt with Smith solar attachment and full verttical circle unless otherwise specified all azimuth determination are accomplished with the solar attachment.

We examine the adjustments of the instruments and correct all errors, then, to test the solar apparatus by comparing their indications resulting from solar observations made during a.m. and p.m. hours with meridians determined by observations made on Polaris we proceed as follows:

TRANSIT No. 9983

October 10, 1926: At my camp which is situated in the NE $\frac{1}{4}$ sec. 16, T.27 S., R.20 E., S.L.B. & M., approximate latitude $38^{\circ}27\frac{1}{2}'$ N., longitude $109^{\circ}44'$ W., at 6h. 14m. 16s. p.m. by my watch which is 18m. 12s. fast of l.m.t., I make an hour angle observation on Polaris east of the meridian, making four observations two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from the extreme NE. edge of a "cap-shaped" rock on top of ledge rim about 60 chs. distant in the direction east to Polaris.

Watch time of observation Oct. 10 = 6h. 14m. 16s. p.m.
 Mean horizontal angle Polaris to rock = $72^{\circ}35'$ W.
 True bearing of edge of rock = N. $73^{\circ}12'$ W.

October 11, 1926: at 8h. 30m. a.m. apparent time, I set off $38^{\circ}22'$ on the latitude arc; $6^{\circ}52'S.$ on the declination arc, and determine a meridian with the solar and find that the E. edge of the rock bears $N.73^{\circ}12'W.$

At apparent noon with the latitude arc unchanged, I observe the sun on the meridian; the resulting reading of the declination arc is $6^{\circ}56'S.$, which agrees with the computed declination of the sun.

I also make a meridian observation of the sun for time and latitude, observing simultaneously the altitude of the sun's lower limb and the transit of the sun's west limb, reversing the telescope and observing simultaneously the altitude of the sun's upper limb and the transit of the sun's east limb.

Mean observed altitude	= $44^{\circ}36'15''$
Reduced latitude	= $38^{\circ}27'30''$ ✓

Mean watch time of observation	= 12h. 05m. 09s. p.m.
Watch fast of local mean time	= 18m. 12s.

At 3h. 30 m. p.m. apparent time, with the latitude arc unchanged, I set off $6^{\circ}59'S.$ on the declination arc, and determine a meridian with the solar and find that the true meridian or E. edge of rock bears $N.73^{\circ}12'W.$

Field work in this township upon which transit 9983 was used was suspended on December 2, 1926 and resumed again on September 5, 1927 and the following test of the instrumental equipment made at my camp in the SW $\frac{1}{4}$ sec. 16, T.28 S., R.20 E., S.L.B. & M., approximate latitude $38^{\circ}22'N.$, longitude $109^{\circ}44'W.$

September 11, 1927: At 6h. 13m. p.m. by my watch which is 3m. fast of correct local mean time, I make an hour angle observation on Polaris east of the meridian, making four observations, two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from the lower south face of a high ledge rim in the direction of S-E-N

to Polaris.

Watch time of observation	= 6h. 13m. p.m.
Mean horizontal angle from Polaris to face of rim	= $100^{\circ}46'55''$
Azimuth of Polaris at observation	= $1^{\circ}10'30''$
True bearing of face of rim	= $S.78^{\circ}02'35''E.$

September 12, 1927: At 8h. a.m. apparent time, I set

$38^{\circ}22'$ on the latitude arc; $4^{\circ}26'N.$, on the decl.

arc, and determine a meridian with the solar which

I find to agree with the true meridian.

At apparent noon, with the latitude arc unchanged, I

observe the sun on the meridian, the resulting read-

ing of the declination arc is $4^{\circ}22'N.$, which agrees

with the computed declination of the sun.

At 4h. p.m. apparent time, with the latitude arc un-

changed, I set off $4^{\circ}18\frac{1}{2}'N.$, on the declination arc

and determine a meridian with the solar and find

that the true meridian or face of rim bears $S.78^{\circ}02'$

$30''E.$

This instrument was used by Carl S. Swanholm, U. S.

Cadastral Engineer for the survey of the meanders of

the Colorado River in 1926 and 1927, and by Elliot

Bird, U. S. Surveyor for the survey of subdivisions

lines as shown on the data diagram of this township

and, although azimuth determinations were accomplish-

ed by the solar attachment, the bearings of the line

thus determined were checked by meridians determined

by direct observations on the sun for meridian, and

by observations made on Polaris on line in the field

during working hours on each clear day. The instru-

ment, thereby was kept in good adjustment during the

progress of the survey.

TRANSIT NO. 9220

October 30, 1926; At the SE. cor. of T.27 S., R.20 E.

established under this group is approximate lat-

itude $38^{\circ}24'N.$, longitude $109^{\circ}40'W.$, at 8h. 00m. a.m.

I observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, reading the deflection angle from a tack in a peg driven firmly in the ground, 10 chs. north, west to Polaris.

Asimuth of Polaris at western elongation	=	1°23'W
Mean deflection angle	=	1°23'
True bearing of tack in peg	=	North.

October 31, 1926: At 9h. a.m. apparent time, I set off 38°24'N., on the latitude arc; 13°59'S., on the declination arc, and determine a meridian with the solar which I find to agree with the true meridian.

At apparent noon, with the latitude arc unchanged, I observe the sun on the meridian, the resulting reading of the declination arc is 14°02'S., which agrees with the computed declination of the sun.

At 3h. p.m. apparent time, with the latitude arc unchanged, I set off 14°04'S., on the declination arc, and determine a meridian with the solar which I find to agree with the true meridian.

December 1, 1926: I make a test of the solar apparatus on the above meridian as follows:

At 9h. a.m. apparent time, I set off 38°24' on the lat. arc; 21°43½'S., on the declination arc, and determine a meridian with the solar and find that the true meridian bears North.

At apparent noon, with the latitude arc unchanged, I observe the sun on the meridian; the resulting reading of the declination arc is 21°45½'S., which agrees with the computed declination of the sun.

At 3h. p.m. apparent time, I set off 38°24' on the lat. arc, 21°46'S., on the declination arc, and determine a meridian with the solar which I find to agree with the true meridian.

The use of transit 9220 was suspended on December 1, 1926 and resumed again on July 29, 1927 in conjunction with the survey of T. 27 S., R. 21 E. and T. 28 S., R. 20 E. For test of this instrument for the 1927 work, see survey of T. 28 S., R. 20 E., book "B" this group.

TRANSIT NO. 9797

The solar attachment on this instrument was not used; all lines were deflected from the south boundary of the township which was surveyed with reference to the true meridian established by Chas. F. Moore U.S. Surveyor at the SE. cor. of T. 27 S., R. 20 E. on October 30, 1926, heretofore described; also from the true meridian established by observations on Polaris on line bet. secs. 19 and 24 on the west boundary of this township. (see line bet. secs. 19 and 24, page 9 this book)

As all the solar observations of transits Nos. 9983 and 9220 taken during the usual hours of solar work agree with the true meridians, we conclude that the instruments are in good adjustment and comply with the requirements of the Revised Manual of Instructions for the Survey of the Public Lands, Assignment Instructions dated April 1, 1926, July 19, 1926, August 24, 1926, May 10, 1927, and August 10, 1927.

MEASUREMENTS

Unless otherwise specified all measurements are made with Lullie steel ribbon tapes 5 and 5 chs. in length compared with a Lufkin standard steel tape 1 ch. in length and found correct. The measurements are made on the slope, the vertical angle determined, and the slope

WEST BOUNDARY OF T.27 S., R.20 E.

Chains

measurements properly reduced to true horizontal distances.

WEST BOUNDARY OF T.27 S., R.20 E.

From the cor. of Tps. 27 and 28 S., Rs. 19 and 20 E., which is an iron post, 2 ins. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T.28 S., R.20 E., book "B", this group.

North, bet. secs. 31 and 36.

Over nearly level bench through short undergrowth.

Shallow draw, drains E.

Wash, 30 lks. wide, 2 ft. deep, drains S.40°E.

Set an iron post, 3 ft. long, 1 in. in dia., 15 ins. in the ground over a cross (X) cut in solid rock and 15 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

↑
S36 | S31
1926

Wash, 20 lks. wide, 4 ft. deep, drains S.80°E.

Wash, 30 lks. wide, 4 ft. deep, drains SE.

Begin ascent of 260 ft. over precipitous S. slope broken by sandstone ledges, bears NE and SW.

Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground over a cross (X) cut in solid rock and 24 ins. in a mound of stone for cor. of secs. 25, 30, 31 and 36, with brass cap marked

T27S
R19E | R20E
S25 | S30
S36 | S31
1926

WEST BOUNDARY OF SECTION 31

Chains

enlad

From which

Solid sandstone ledge, marked X BO 831, bears
S.70°E., 30 lks. distant.

Solid sandstone ledge, marked X BO 825, bears
N.78°W., 109 lks. distant.

No other bearing objects available.

Land, S. 70 chs. rolling bench, general E. exposure and
drainage; N. 10 chs. rough sandstone break facing S

Soil, shallow sand, clay and rocky of sandstone form-
ation; 2nd. to 4th. rates.

No timber.

Undergrowth, yellow top, mountain rush, shadscale and
bunch grass.

North, bet. secs. 25 and 30.

The line north ascends precipitous S. slope broken by
ledges up which it is impracticable to chain; there-
fore, I triangulate as follows:

Set flag "A" on line

to the N., and flag

"B" at a point 16.20

chs. S. of the cor.

of secs. 25, 30, 31, and

36. Then, from "B"

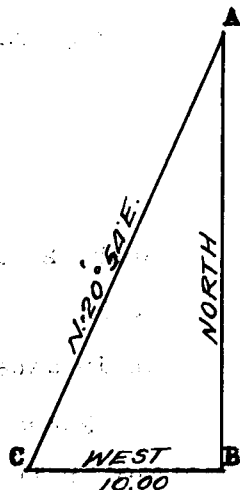
measure base line

west, 10.00 chs. dist.

to point "C". The line

"CA" bears N.20°54'E.

All bearings taken with reference to transit line of
line bet. secs. 31 and 36, W. bdy of the Tp. and
angles determined by deflection.



Distance by triangulation	= 26.19 chs.
Subtract dist. from "B" to sec. cor.	= 16.20 ✓ "
Distance on line to "A"	= 9.99 ✓ "

9.99

Point of triangulation near top of spur.

10.95

Top of spur, 330 ft. above sec. cor., projects S.80°E.
descend abruptly over rugged N. slope of spur.

WEST BOUNDARY OF T.27 S., R.20 E.

Chains

- 29.33 Base of spur, 350 ft. below top, bears NE and SW.
thence over rolling bench gradually descending
through short undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in
the ground on solid rock and 20 ins. in a mound of
stone for $\frac{1}{4}$ sec. cor.; with brass cap marked
- $\frac{1}{4}$
S25 | S30
1926
- Deposit a sandstone, 10x8x6 ins., marked with a cross (X)
on one face at base of monument.
- 56.60 Trail, bears E. and W.
- 68.69 Top of white sandstone ledge about 40 ft. high and S.
rim of canyon, bears E. and W.; descend abruptly 220
ft. to sec. cor. over broken N. slope.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 4 ins. in
the ground on solid rock and 26 ins. in a mound of
stone for cor. of secs. 19, 24, 25, and 30, with brass
cap marked
- T27S
R19E | R20E
S24 | S19
S25 | S30
1926
- Deposit a sandstone, 10x6x4 ins. marked with a cross
(X) on one face at base of monument.
- Land rolling bench and rough, rugged slopes of spur and
canyon; general drainage E.
- Soil, shallow sand, clay and rocky of sandstone form-
ation; 2nd. to 4th. rates.
- No timber.
- Undergrowth, yellow top, mountain rush, shadscale and
bunch grass.
- North, bet. secs. 19 and 24.
- Descend over rough broken land to bottom of canyon, thro-
ugh short undergrowth.

WEST BOUNDARY OF T. 27 S., R. 20 E.

Chains	
6.10	Bottom of canyon, 25 ft. below sec. cor. S. 50° E. ascend abruptly over rocky slope.
18.75	Top of white sandstone ledge and N. rim of canyon, 280 above bottom, bears NW and SE. Thence over rolling bench.
31.45	Trail, bears E. and W.
36.85	Begin ascent over rough, broken S. slope of spur, bears NW and SE.
40.00	On S. slope of spur, 40 ft. above base. Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked <div style="text-align: center;"> \uparrow S24 | S19 1926 </div> From which A sandstone ledge, marked $\frac{1}{4}$ X BO, bears N. 33° W., 285 lks. distant. No other bearing objects available.
44.20	Top of spur, 190 ft. above $\frac{1}{4}$ sec. cor., projects S. 70° E. descend abruptly over N. slope.
51.20	Base of descent at foot of spur, 185 ft. below top, bears E and W; ascend along SE. slope.
63.00	Spur, 105 ft. above base of descent, projects N. 50° E. about 1 ch. distant; descend N. slope.
65.00	Enter scattered growth of scrub timber, bears E. and W.
66.60	Trail, bears E. and W.
70.90	Top of white sandstone ledge about 50 ft. high and rim of canyon, bears N. 40° E. and S. 40° W. November 14, 1926: At this station at 8h. 06 m.p.m. 1.m t., I observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, reading the deflection angle from a flag firmly set in the ground about 30 chs. N., east to Polaris.

E. ON WEST BOUNDARY OF T.27 S., R.20 E.

Chains

-renew from San Pedro de Santa Barbara, Sonora, Arizona

Asimuth of Polaris at eastern elongation= $1^{\circ} 23' 15''$
 Mean deflection angle $= 1^{\circ} 23' 30''$

13.0 True bearing of flag $= N. 0^{\circ} 00' 15'' W.$

The bearing of the west boundary bet. the cor. of Tps.

to str. 27 and 28 S., R. 19 and 20 E. and this point there-

fore is $N. 0^{\circ} 00' 15'' W.$; I therefore correct the line to

parallel to the true meridian; offset east .03 chs. at this point

and continue

North.

Descend abruptly 335 ft. over N. slope of canyon to

On surface rock, mark a cross (X), over which,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in

a large mound of stone for cor. of secs. 13, 18, 19, and

24, with brass cap marked

T27S.	
R19E	R20E
S13	S18

S24 S19
1926

From which

A sandstone boulder, $10 \times 8 \times 6$ ft., marked

S24 X B0, bears $S. 61\frac{1}{2}^{\circ} W.$, 140 chs. dist.

No bearing trees or other bearing objects
available.

Land, rolling bench and rough, broken slopes of spurs
and canyons; general E. drainage.

Soil, shallow sand, clay and sandstone rock; 2nd. to
4th. rates.

Timber, a few scrub juniper and pinon on N. portion of
mile.

Undergrowth, shadscale, mountain rush, yellow top and
grass.

North, bet. secs. 13 and 18..

Descend N. slope over rough broken slope of canyon

W. base. The creek, which is the old stream, is now dry.

Renewed water. It is the same as the old stream.

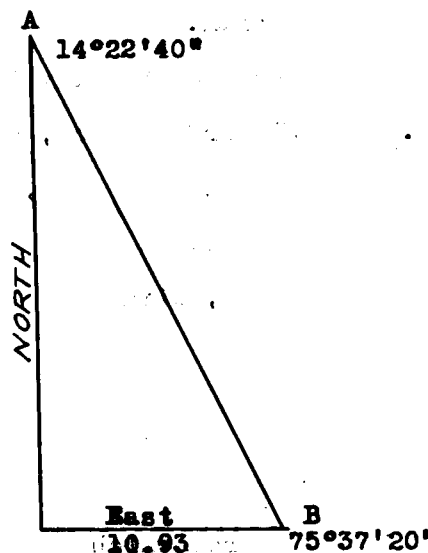
WEST BOUNDARY OF TOWN OF ALBANY

Chains

entire

through very scattered scrub timber and short undergrowth.

- 5.00 Top of ledge about 200 ft. high and S. rim of lower break of box canyon, bears E. and W.; canyon is about 6 chs. wide from rim to rim and drains E.; north of the canyon line ascends a series of broken ledges over which it is impracticable to chain; therefore, I triangulate as follows: Return to sec. cor., and Set flag "A" on line north, then, with telescope directed to "A" deflect an angle of 90° to the right and measure base line East, 10.93 chs. to "B". The angles subtended at "A" and "B" determined by repetition are $14^\circ 22' 40''$ and $75^\circ 37' 20''$ respectively.



Distance by triangulation	=	42.64 chs.
Distance by return measurement	=	$\frac{2.64}{40.00}$ "

- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S13 | S18
 1926

Ascend 100 ft. to

- 42.64 Point of triangulation on top of a white ledge, 200 ft high and rim of bench, bears E and W; thence over broken bench.
- 58.60 Top of ledge and N. rim of bench, bears E and W. descends over N. slope.
- 68.15 Top of ledge, about 150 ft. high, bears NE. and SW.
- 80.00 In small wash, drains NE., 625 ft. below bench.

WEST BOUNDARY OF T. 27 S., R. 20 E.

Chains

Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 24 ins. in a mound of stone for cor. of secs. 7, 12, 13, and 18, with brass cap marked

T27S	
R19E	R20E
S12	S7
S13	S18
1927	

from which

A juniper, 12 ins. diam., bears N. $13\frac{1}{2}^{\circ}$ E., 418 lks. dist., marked T 27 S R20E S 7 B T

No other bearing trees or other objects available.

Land, rough benches, broken by sandstone ledges and cut by deep box canyons; general E. drainage.

Soil, shallow sand, clay and rocky of sandstone formation; 2nd. to 4th. rates.

Timber, a few scattered scrub juniper and pinon.

Undergrowth, shadscale, black brush, mountain rush, yellow top and grass.

North, bet. secs. 7 and 12.

Over rough broken bench land through very scattered scrub timber and short undergrowth. The line north passes over high ledges impracticable to chain, I therefore triangulate as follows:

Set flag "A" on line N.,

and designate this

point "B"; then, with

the telescope directed

to "A" deflect an angle

of 90° to the left and

measure base line "BC";

west, 9.288 chs. The

angles at "A" and "C"

determined by repetition



WEST BOUNDARY OF T. 27 S. R. 20 E.

anted

Chains

are $12^{\circ}30'$ and $77^{\circ}30'$ respectively.

Distance by triangulation 51.90 chs.

The approximate topography north from the sec. cor. is:

5.00 Wash, 20 lks. wide, 2 ft. deep, in draw, drains NE.

8.50 Low spur, projects NE.

15.00 Wash, 1.00 chs. wide, 15 ft. deep, drains SE.; trail in draw, bears NW. and SE.; ascend abruptly over series of sandstone ledges bearing NW. and SE.

40.00 Point for $\frac{1}{4}$ sec. cor. falls on inaccessible ground where cor. cannot be set.

41.90 Point of triangulation.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S12 | S7
 WC
 1927

From this point the line ascends a high ledge rim of bench, up which I cannot chain; therefore triangulation as follows:

Set flag "A" on line N., then

return to the cor. of secs.

7, 12, 13, and 18 which I

designate "B" and with the

transit over "B" and the

telescope directed to "A"

deflect an angle of 90° to

the left and measure base

line "BC", west, 9.288 chs.

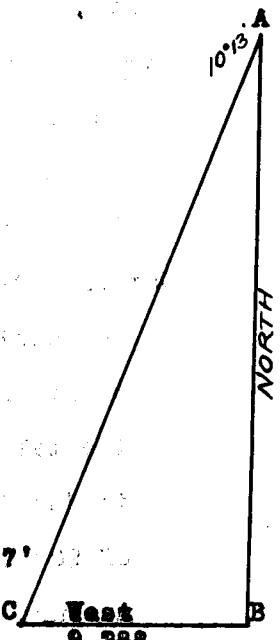
The angles at "A" and "C"

determined by repetition

are $10^{\circ}13'$ and $79^{\circ}47'$

respectively.

Distance by triangulation = 51.53 chs.



WEST BOUNDARY OF T. 27 S., R. 20 E.

Chains

51.53 To point "A" of triangulation on top of ledge and rim of bench, 625 ft. above sec. cor., bears NE and SW. thence over bench through scattered timber and short undergrowth.

62.10 top of ledge and N. rim of bench, bears SW. and E.; descend abruptly. Leave timber, bears SW. and E.

77.10 Spur, projects NW.; descend NE. slope.

80.00 In small draw, drains W., 420 ft. below bench. Set an iron post, 3 ft. long, 2 ins. in dia., 8 ins. in the ground over a cross (X) cut in solid rock and 22 ins. in a mound of stone for cor. of secs. 1, 6, 7, and 12, with brass cap marked

T27S	
R19E	R20E
S1	S6
S12	S7
1927	

Land, rough bench, broken by ledges and cut by deep box canyons; general SE. drainage.

Soil, shallow sand, clay and rocky of sandstone formation; 2nd. and 4th. rates.

Timber, a few scattered scrub juniper and pinon.

Undergrowth, shadscale, black brush, yellow top and grass.

North, bet. secs. 1 and 6.

Ascend over rough broken bench land through short undergrowth.

12.00 Spur, 65 ft. above sec. cor., projects W.; descend N. slope 50 ft. to

22.40 Wash, 1.20 chs. wide, 10 ft. deep, drains SW. in large draw; ascend.

27.60 Begin steep ascent over talus slope.

40.00 At base of ledge, 50 ft. high, bears NE. and SW., 290 ft. above draw.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.

in a large mound of stone over a cross (X) cut in

Chains

solid rock for 1 sec. cor., with brass cap marked

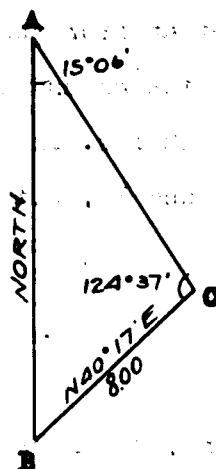
81 86

1927

40.66 Top of ledge, bears NE. and SW.; the line north aspect precipitous talus slope up which it is impracticable to chain; therefore, I triangulate as follows:

Set flag "A" on line

north and designate this point "B"; then with the transit over "B" and the telescope directed to "A" deflect an angle of $40^{\circ}17'$ to the right and measure base line "BC", N. $40^{\circ}17'E$, 8.00 chs. dist.



The angles subtended at

"A" and "C" determined by repetition are $15^{\circ}06'$ and $124^{\circ}37'$ respectively.

Distance by triangulation = 25.27 chs.

65.93 To point "A" of triangulation.

66.79 Top of slope, 775 ft. above sec. cor. From this point the cor. of Tp. 26 S., Rs. 19 and 20 E. bears N. $57^{\circ}42'E$. Thence along steep E. talus slope.

66.86 Intersect a line projected west from the cor. of T. 26 S. Rs. 19 and 20 E.,

Set an iron post, 3 ft. long 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for closing cor. of T. 27 S., Rs. 19 and 20 E., with brass cap marked

12682192

81 86

81 86

81 86

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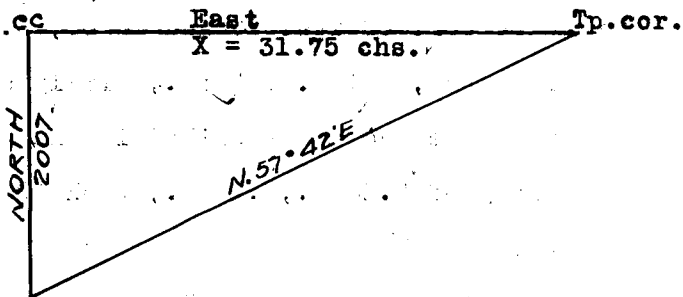
81 86

81 86

The regulated 3 inch iron post is not available for use

Chains

at this cor.
From this cor. the cor. of T.26 S., Rs. 19 and 20 E.,
which is an iron post, 3 ins. in dia., firmly set,
and marked and witnessed as described in the official
field notes of the survey of T.26 S., R.20 E., bears
East, 31.75 chs. distant as determined by triangulation
as shown on the following diagram:



= 66.79 chs. point on line bet. secs. 1 and 6.

$$X = \tan. 57^\circ 42' \times 20.07 \text{ or } 1.58184 \times 20.07 = 31.75 \text{ chs.}$$

The line bet. the closing cor. of T.27 S., Rs. 19 and 20 E. and the cor. of T.26 S., Rs. 19 and 20 E. passes over a precipitous talus slope impracticable to chain.

At a point 8.25 chs. west of the closing cor. of Tp. 27 S., Rs. 19 and 20 E., and 40.00 chs. west of the cor. of T.26 S., Rs. 19 and 20 E.,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor. S. bdy. sec. 36, T.26 S., R.19 E., with brass cap marked

4S36

1927

This cor. stands on a steep W. slope, 200 ft. below top of a spur projecting S. and which is E. 4.70 chs. distant.

Land, rough and broken; general E. exposure and SE. drainage.

Chains

Soil, shallow sand, clay and rocky of sandstone formation; 2nd. to 4th. rates.

Timber; a few scattered scrub juniper and pinon.

Undergrowth, shadscale, black brush and yellow top.

EAST BOUNDARY OF T.27 S., R.20 E.

From the cor. of Tps. 27 and 28 S., R.20 E. which is an iron post, 2 ins. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T.28 S., R.20 E., book "B" this group.

Thence

North, along E. bdy. sec. 36.

Over rough broken bench known as Hatch Point, through dense scrub timber and short undergrowth.

2.20 Begin descent over broken N. slope.

5.33 The closing cor. of Tps. 27 and 28 S., R.21 E. subsequently established at this point; see survey of T.27 S. R.21 E.

7.00 Sandstone ledge rim, 60 ft. high, bears NW. and NE.

19.60 Wash, 10 lks. wide, 2 ft. deep, in draw, 200 ft. below Tp. cor., drains E.; ascend rocky S. slope.

29.70 Top of ascent, 175 ft. above draw, bears E. and W.; thence on near level line.

40.00 On surface rock, mark a cross (X), over which Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone for $\frac{1}{4}$ sec. cor. E. bdy. sec. 36, T.27 S., R.20 E., with brass cap marked

From which

A juniper, 6 ins. diam., bears S. 52° W., 60 lks.

dist., marked $\frac{1}{4}$ S 36° E

EAST BOUNDARY OF T. 27 S., R. 20 E.

Chains

A juniper, 6 ins.diam., bears N.50 $\frac{1}{2}$ °W., 31
lks. dist., marked $\frac{1}{4}$ S 36 B T

45.23 $\frac{1}{2}$ Point midway bet. the true point for the closing cor.
of secs. 30 and 31, T.27 S., R.21 E. and the closing
cor. of Tps. 27 and 28 S., R. 21 E.,
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a large mound of stone over a cross (X) cut in solid
rock for $\frac{1}{4}$ sec. cor. W. bdy. sec. 31, T.27 S., R.21 E.,
with brass cap marked

$\frac{1}{4}$ S31

1927

from which

A pinon, 10 ins.diam., bears N.33°E., 60 lks.
dist., marked $\frac{1}{4}$ S 31 B T

A juniper, 6 ins.diam., bears S.36°E., 71
lks. dist., marked $\frac{1}{4}$ S 31 B T

- 45.30 Begin gradual descent over N. slope.
- 53.65 Top of ledge and rim, bears NE. and W.; descend abruptly.
- 69.00 Wash, 10 lks. wide, 2 ft. deep, in draw, 185 ft. below
 $\frac{1}{4}$ sec. cor. sec. 31, drains NW.
- 75.40 Same wash, drains NE.; ascend.
- 76.30 Rocky ledge point, 75 ft. above wash, bears NW. and SW.;
descend.
- 77.80 Same wash, drains NW.; ascend.
- 79.89 Point for cor. of secs. 25 and 36 will fall on inaccessible
sandstone slope where cor. cannot be set; therefore, at this point,
Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in
a large mound of stone over a cross (X) cut in solid
rock for witness cor. to the cor. of secs. 25 and
36, T.27 S., R.20 E., with brass cap marked

Chains

WC
T27S
S25
S36
R20E
R21E

1926

From which

A pinon, 10 ins.diam., bears S.34°W., 40 lks.

dist., marked WC T27S R20E S36 BT

A pinon, 10 ins.diam., bears N.68°45'W., 56 lks.

dist., marked WC T27S R21E S25 BT

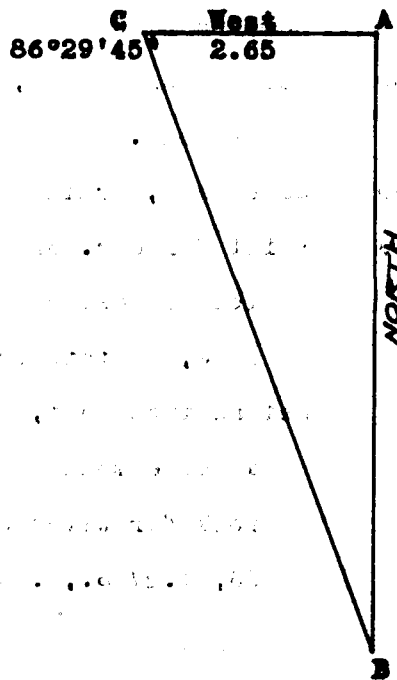
80.00 Point for cor. of secs. 25 and 36 on face of sloping sandstone ledge, 50 ft. high, bears NW. and SE. Land, rolling and broken bench with precipitous sandstone breaks; general NE. exposure and drainage. Soil, shallow sand and sandstone rock; 4th. rate. Timber, scrub juniper and pinon. Undergrowth, shadscale, mountain rush, black brush and grass.

North, along the east boundary of section 25.

Over rough broken land through short undergrowth.

.50 Top of high ledge and rim of Hatch Point, bears N. and W.; line to the north crosses a deep box canyon across which I cannot chain; therefore triangulate as follows:

Set flag "A" on line to the N., and flag "B" 3.99 chs. south of the true point for cor. of secs. 25 and 36; then from "A" and with the telescope directed to "B", deflect an angle of 90° to the right and measure base line West, 2.65 chs. distant; (no longer base could be



3°30'15"

EAST BOUNDARY OF T.27 S., R.20 E.

Chains

obtained). The angles subtended at "B" and "C" determined by repetition are $3^{\circ}30'15''$ and $86^{\circ}29'45''$ respectively.

Distance by triangulation	=	43.28 chs.
Subtract		3.99 "
Distance on line to point "A"	=	39.29 "

The approximate topography on this line is:

Precipitous descent over ledges and talus slope.

5.14 The true point for the closing cor. of secs. 30 and 31, T.27 S., R.21 E. on inaccessible ground; witness cor. established 8.20 chs. east; see survey of T.27 S., R.21 E.

19.00 Bottom of box canyon, 300 ft. deep, drains NE.; ascend rough SE. slope.

39.29 Point of triangulation on top of high ledge and rim of point projecting NE. from Hatch Point, bears NE. and SW. Ascend over rocky bench.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor. E. bdy. sec. 25, T.27 S., R.20 E., and witness cor. to the $\frac{1}{4}$ sec. cor. W. bdy. sec. 30, T.27 S., R.21 E., with brass cap marked

	WC
	$\frac{1}{4}$
4825	S30

1926

Note: True point for $\frac{1}{4}$ sec. cor. sec. 30, falls on steep slope, 5.19 chs. north.

43.55 Top of ascent on bench, 140 ft. above $\frac{1}{4}$ sec. cor., bears NE. and SW.; descend.

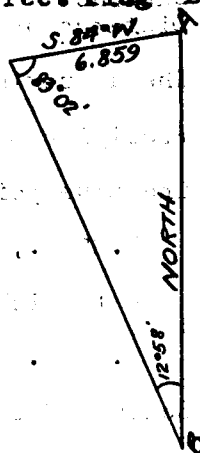
45.19 Point for $\frac{1}{4}$ sec. cor. W. bdy. sec. 30, T.27 S., R.21 E., midway bet. the true point for the closing cor. of secs. 30 and 31 and the closing cor. of secs. 19 and 30, T.27 S., R.21 E. This point falls on a steep, rocky slope where it is impracticable to establish cor.

50.88 Top of ledge and rim of bench, bears NE. and SW.;

Chains

precipitous descent over high ledge rims and talus slope, down which I cannot chain; therefore triangulate as follows:

Set flag "A" on line to the N. and erect flag "B" at this point; then, with transit over "A" and the telescope directed to "B" deflect an angle of $84^{\circ}00'$ to the right and measure base line "AC", S. 84°



00'W., 6.859 chs. The angles subtended at "B" and "C" determined by repetition are $12^{\circ}58'$ and $83^{\circ}02'$ respectively.

Distance on line to "B"	= 50.88 chs.
Distance "BA" by triangulation,	= 30.34 "
Total distance to "A"	= 81.22 "
Distance by return measurement	= 7.22 "

.74.00 Foot of talus slope, bears NE. and SW., thence over broken bench land.

80.00 On surface rock, mark a cross (X), over which Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a mound of stone for cor. of secs. 24 and 25, T.27 S. R.20 E., with brass cap marked

T27S	T27S
S24	
S25	S30
R20E	R21E
	1926

Cor. stands on NW. slope, 700 ft. below Hatch Point. Land, rough broken bench and precipitous talus slopes; general N. exposure and NW. drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

Timber, a few scattered scrub juniper and pinon.

Undergrowth, scattered black brush, mountain rush,

EAST BOUNDARY OF T.27 S., R.20 E.

Chains

shadscale and yellow top.

North, along the E. bdy. of sec. 24.

Gradually descend over general NW. slope of broken bench through short undergrowth.

5.24 The closing cor. of secs. 19 and 30, T.27 S., R.21 E. subsequently established at this point; see survey of T.27 S., R.21 E.

20.95 Base of descent, 90 ft. below sec. cor., bears NE. and SW.; thence on near level line.

31.00 Begin descent over N. slope.

40.00 On surface rock, mark a cross (X), over which Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone for $\frac{1}{4}$ sec. cor. E. bdy. sec. 24, T.27 S., R.20 E., with brass cap marked

 $\frac{1}{4}$ S24

1926

40.10 Top of high ledge rim, bears NE. and SW., over which I cannot chain; therefore triangulate as follows:

Set point "A" on line

N. and erect flag "B"

at this point; then,

from "A" measure base

line, east, 7.249 chs.

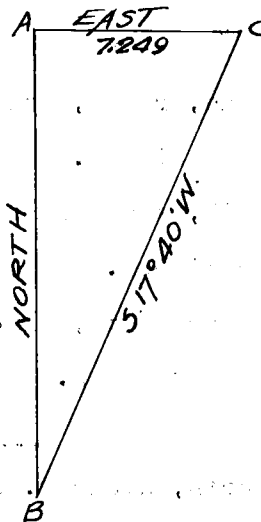
to "C". The line "CB"

bears S.17°40'W. and

the angle subtended at

"C" determined by

repetition is 72°20'



Distance on line to "B" = 40.10 chs.

Distance "BA" by triangulation = 22.76 ✓ "

Distance on line to "A" = 62.86 ✓ "

Distance by return measurement = 17.58 "

45.28 Point midway bet. the closing cor. of secs. 19 and 30

and the closing cor. of secs. 18 and 19, T.27 S.,

EAST BOUNDARY OF T. 27 S., R. 21 E.

Chains

ants: 10

R. 21 E.,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor. W. bdy. sec. 19, T. 27 S., R. 21 E., with brass cap marked

S19

1927

Cor. stands at base of ledges, bears NE. and SW.; then over rolling NW. slope of bench.

76.45 Begin descent over NE. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for cor. of secs. 13 and 24, T. 27 S., R. 21 E., with brass cap marked

T27S T27S

S13 S19

S24

R20E R21E

1926

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, rough, broken bench; general NW. exposure and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

No timber.

Undergrowth, black brush, mountain-rush, yellow top and grass.

North, along E. bdy. of sec. 13.

Descend over rough broken bench land through short undergrowth.

3.30 Wash, 30 lks. wide, 3 ft. deep, in draw, drains NW.; a

small seep containing much mineral, bears NW. about 2 chs. distant; gradually ascend

5.32 The closing lead of secs. 18 and 19, T. 27 S., R. 21 E., subsequently established at this point; see T. 27 S., R. 21

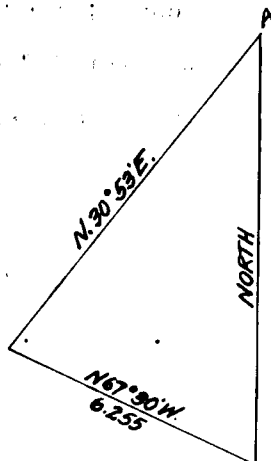
26.63 The line north ascends high ledge up which I cannot

EAST BOUNDARY OF T.27 S., R.20 E.

Chains

chain; therefore triangulate as follows:

Set flag "A" on line
north; then measure
base line N.67°30'W.,
6.255 chs.distant.
From W. end of base
flag "A" bears N.30°53'
E. All bearings
taken by direct read-
ing of the solar and
angles checked by
deflection.



Distance by triangulation = 12.06 chs.

- 38.69 Point of triangulation on top of sandstone ledge and
rim, 100 ft. high, and 275 ft. above wash, bears NW.
and SE.; gradually ascend over sandstone surfacerock.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone over a cross (X) cut in solid rock
for $\frac{1}{4}$ sec. cor. E. bdy. sec. 13, T.27 S., R.20 E.,
with brass cap marked

$\frac{1}{4}$ S13

1926

- 45.48 Point midway bet. the closing cor. of secs. 18 and 19
and the closing cor. of secs. 7 and 18, T.27 S., R.
21 E.,
- Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone over a cross (X) cut in solid rock
for $\frac{1}{4}$ sec. cor. W. bdy. sec. 18, T.27 S., R.21 E.,
with brass cap marked

$\frac{1}{4}$ S18

1927

- 53.20 Top of sandstone spur, projects W.; gradually descend.
- 62.79 Top of sandstone ledge rim, 150 ft. high, bears NE. and
SW.; the line north passes over a series of sandstone

EAST BOUNDARY OF T.27 S., R.20 E.

Chains

rims and points projecting W. over which I cannot chain; therefore I triangulate as follows:

Set point "A" on line

north and erect flag

"B" at this point;

then from "A" measure

base line "AC", west,

7.145 chs. The line

"CB" bears S.13°06'E

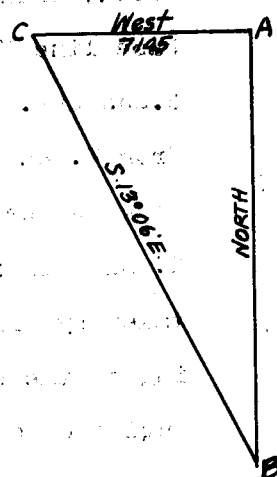
and the angle sub-

tended at "C" =

76°54'. All bearings

taken by direct reading of the solar and angles

checked by deflection.



Distance on line to "B" = 62.79 chs.

Distance "BA" by triangulation = 30.70 "

Distance to "A" = 93.49 "

Distance by return measurement = 13.49 "

80.00

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. i

a large mound of stone over a cross (X) cut in solid

rock for cor. of secs. 12 and 13, T.27 S., R.20 E.,

with brass cap marked

T27S	T27S
S12	S18
S13	
R20E	R21E
1926	

Land, rolling bench, rough broken ledges and precipitous

talus slopes; general W. exposure and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

No timber.

Undergrowth, scattered black brush, and yellow top.

North, along E. bdy. of sec. 12.

Descend over broken bench land through short undergrowth

3.80

Base of rim rock, bears NE. and SW.; thence over sandy bench.

5.64

The closing cor. of secs. 12 and 13, T.27 S., R.21 E.

EAST BOUNDARY TOWNSHIP E., R. 20 E.

subsequently established at this point; see survey

of T. 27 S., R. 21 E.

6.70 Wash, 10 lks. wide, 1 ft. deep, drains SW.

13.00 Trail, bears NE. to Moab, Utah and SW. to Indian Creek.

37.80 Low sand ridge, bears NE. and SW.; descend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. E. bdy. sec. 12, T. 27 S., R. 20 E., with brass cap marked

S12

1926

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Also, deposit a sandstone, 8x2x2 ins., marked with a cross (X) on one face at base of monument.

45.25 Top of ledge, 80 ft. high and rim of Colorado River Canyon, bears NE. and SW.; descend abruptly.

45.685 Point midway bet. the closing cor. of secs. 7 and 18 and the closing cor. of secs. 6 and 7, T. 27 S., R. 21 E.; also point for the $\frac{1}{4}$ sec. cor. W. bdy. sec. 7, T. 27 S., R. 21 E. This point falls on a sandstone ledge where cor. cannot be set; witness cor. established at 46.64 chs.

46.64 Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in the ground for witness cor. to the meander cor. of secs. 7 and 12 on the left bank of the Colorado River and also witness cor. to the $\frac{1}{4}$ sec. cor. W. by sec. 7, T. 27 S., R. 21 E., with brass cap marked

WCMC

S7
S12 WC

R20E R21E
T27S

1926

From which

Base of vertical red sandstone rim, 3 ft. above

rocky surface and slope facing NW., marked

R21E & S7 BO, bears S. 45° 16' E., 10 lks. dist.

Same rim, marked BO XS12, bears S. 26° 39' W., 28

EAST BOUNDARY FOR T.27 S., R.20 E.

Chains

anted

lks. distant.

A group of large sandstone boulders are situated west of cor. about 30 lks. distant.

47.17 Intersect mean high water mark on the left bank of the Colorado River, also true point for the meander corner of secs. 7 and 12.

NOTE: The Colorado River in T.27 S., R.20 E. is generally confined to a definite channel the banks of which are principally of alluvial formation. These banks, however, are subject to change, due to seasonal high water or a sudden rise in the water level of the river caused by floods; therefore, unless otherwise stated in order to perpetuate the meander corners on both banks of the river in the township on safe ground, witness corners are established.

In order to determine distance across river, I triangulated as follows:

Set flag "A" on line

on N. side of river,

and erect flag "B"

at 46.24 chs. on

line bet. secs. 7 and

12; then, with the

transit over "A" and

the telescope directed

to "B" deflect an angle

of $80^{\circ}26'30''$ to the

right and measure base

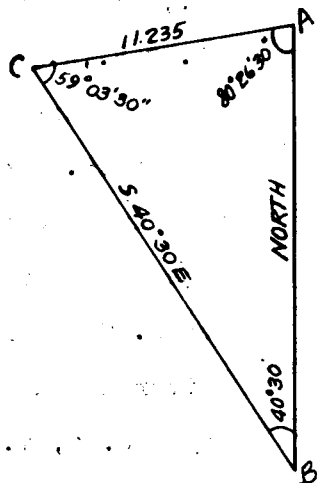
line "AC", S. $86^{\circ}26'30''$

W., 11.235 chs. distant. The line "CB" bears S. $40^{\circ}30'$

E., and the angles subtended at "B" and "C" deter-

mined by repetition are $40^{\circ}30'$ and $59^{\circ}03'30''$

respectively.



EAST BOUNDARY OF T.27 S., R.20 E.

Distance on line to point "B" = 46.24 chs.
 Distance on line "BA" by triangulation = 14.84 chs.
 Distance on line to "A" = 61.08 chs.
 Distance by return measurement = 3.12 chs.

57.96 Intersect right bank mean high water mark of the Colorado river and the true point for the meander cor.

58.20 Set iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground for the witness cor. to the meander corner of secs. 7 and 12 on the right bank of the Colorado River, with brass cap marked

T27S	
R20E	R21E
S12	S7
WC	
MC	
1926	

From cor., a conical point at the NE. point of bench, bears S.24°20'E., vertical angle = +9°20'.

Two small isolated towers or columns of red sandstone bear N.86°32'W., and N.66°20'W.

This corner stands on an alluvial bank, about 15 ft. above water level and in dense willow undergrowth.

Thence over bottom land through dense undergrowth.

61.08 Point of triangulation.

65.00 Begin gradual ascent over SE. slope.

67.70 Top of low gravel knoll, bears NE. and SW.; gradually descend.

80.00 Set iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for cor. of secs. 1 and 12, T.27 S., R.20 E., with brass cap marked

T27S	T27S
S 1	S 7
S12	R21E
R20E	
1926	

Raise mound of stone, 2 ft. base, 1½ ft. high, W. of the corner.

Land, rolling and broken benches and river bottom; general drainage and exposure to Colorado River which flows westerly.

EAST BOUNDARY OF T.27 S., R. 20 E.

Chains	
	Soil, sandy, gravelly, alluvial and clay streaked with sandstone rock; 1st. to 4th. strata. No timber.
	Undergrowth, black brush, yellow top, mountain rush, greasewood and willow.
	North along E. bdy. of sec. 1.
	Over nearly level bottom lands through dense undergrowth
5.73	The closing cor. for secs. 6 and 7, T. 27 S., R 21 E., subsequently established at this point.
12.90	Wash, 40 lks. wide, 3 ft. deep, drains SE.
17.60	Leave bottom lands, bears NE. and SW.; ascend.
40.00	Set iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground, for the $\frac{1}{4}$ sec. cor. E. bdy. sec. 1, T.27 R.20 E., with brass cap marked
	$\frac{1}{4}$ S1 1926
	Deposit sandstone 8x6x5 ins. marked with X at base post
45.73	Northing of 40.00 chs. from the closing cor. of secs. 6 and 7, T.27 S., R. 21 E.
	Set iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross(X) cut in solid rock for $\frac{1}{4}$ sec. cor.W. bdy.sec.6,T.27 S.,R.21 E., with brass cap marked
	$\frac{1}{4}$ S6 1927
53.00	Top of ledge rim, 10 ft. high, also top of ascent, 200 above river bottom, bears NW. and SE.; descend abruptly over NE. slope.
57.60	Wash, 35 lks. wide, 2 ft. deep, 150 ft. below rim, drains SE.; ascend broken SW. slope.
86.40	Small wash drains SE.; also telephone line, bears NE. and SW.
87.75	Intersect S. bdy. of T. 26 S., R. 20 E., 7.62 chs. east

WEST BOUNDARY OF T.27 S., R.20 E.

Station

the $\frac{1}{4}$ sec. cor. S. bdy. sec. 35. T.26 S., R.20 E.,

which is an iron post, 1 in. in dia., firmly set,

and marked and witnessed as described in the official

field notes of the survey of T.26 S., R.20 E.

At point of intersection,

Set an iron post, 3 ft. long, 2 in. in dia., 6 in. in

the ground on solid rock and 24 in. in a mound of

stone for closing cor. of T.27 S., R. 20 and 21 E.,

with brass cap marked

T26SR20E

S36

S1

S6

R20E

R21E

OC

T27S

1926

Deposit a sandstone, 4x4x4 in., marked with a cross

(X) on one face at base of monument.

Other accessories impracticable.

The regulation 3 in. iron post was not available for
use at this cor.

Land, nearly level river bottom and broken bench;

general S. exposure and SE. drainage.

Soil, shallow sand, clay and sandstone rock, inc. to
4th. rates.

No timber.

Undergrowth, dense greasewood, rabbit brush and yellow
top on river bottom; and scattered black brush,
yellow top and grass on bench.

SUBDIVISION OF T.27 S., R.20 E.

From the cor. of secs. 1, 2, 35, and 36 on the S. bdy. of

the Tp., which is an iron post, 2 in. in dia.,

firmly set, and marked and witnessed as described in

the field notes of the survey of T.26 S., R.20 E.,

book "B" this group.

U. S. GEOLOGICAL SURVEY DIVISION OF GEOGRAPHIC NAMES, R. 20 E.

Chains

arranged

- N. $0^{\circ}01'W$, bet. secs. 35 and 36. ...
 Over rolling top of Hatch Point, through scattered
 scrub timber and short undergrowth.
 28.40 Top of rise, bears N. and W.; gradually descend.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in
 a mound of stone over a cross (X) cut in solid rock
 for $\frac{1}{4}$ sec. cor., with brass cap marked

835 | 836

1926

From which

- A pinon, 12 ins. diam., bears N. $20^{\circ}00'E$, 44 lks.
 dist., marked $\frac{1}{4}$ S 36 B T
 A juniper, 8 ins. diam., bears N. $88^{\circ}W$, 55 lks.
 dist., marked $\frac{1}{4}$ S 35 B T

- 59.17 Top of high ledge and rim of Hatch Point, bears NE.
 and SW. Precipitous descent over ledges and talus
 slope down which I cannot chain; therefore, I triangulate as follows:

Set point "A" on line to C S. $89^{\circ}59'W$
 the north and erect 21.63
 flag "B" at this point;
 then, from "A" measure
 base line, S. $89^{\circ}59'W$,
 21.63 chs. to point "C".

The line "CB" bears S. $46^{\circ}03'E$,
 and the angle subtended at "C"
 is $43^{\circ}58'$. All bearings taken
 by direct reading of the solar
 and angles checked by deflection.

Distance by triangulation = 20.86^{86} chs., which added to
 59.17 chs. = 80.03 chs.; thence by return measurement
 S. $0^{\circ}01'E$, 103 chs. to

- 80.00 On steep NW. talus slope, 1700 ft. below rim of Hatch
 Point.

SUBDIVISION OF T.27 S., R.29 E.

Chains

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for cor. of secs. 25, 26, 35, and 36, with brass cap marked

T27S	R29E
S26	S25
S35	S36
1926	

Land, rolling bench and precipitous talus slopes; general N. exposure and drainage.

Soil, shallow sand, clay and rocky of sandstone formation; 2nd. to 4th. rates.

Timber, scattered scrub juniper and pinon on bench. Undergrowth, black brush, mountain rush, yellow top and grass.

S.89°55'E., on a random line bet. secs. 25 and 36.

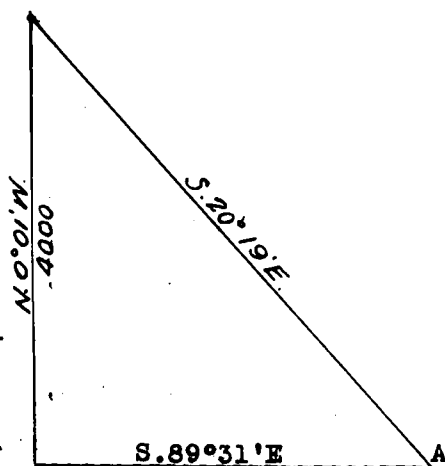
Line east ascends high ledges and breaks of bench up which I cannot chain; therefore triangulate as follows:

Set flag "A", S.89°31'E.

on top ledge (unable to set flag on true random line) then measure base line N.0°01'W., 40.00 chs.

and from N. end of base find that flag

"A" bears S.20°19'E.



All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 14.86 chs.

I now offset N. 10 1/2 lks. to true random line at

Thence S.89°55'E.

Set temp. 1/4 sec. cor.

Line strikes impassable ledges on rim of bench, to pass

SUBDIVISION OF T.27 S.22 E.

Chains

aniam

- which I offset as follows:
- South, 4.00 chs., then on offset line,
S.89°55'E., 3.37 chs., then
North, 4.00 chs. to true random line, on which at
80.02 Intersect E. bdy. of the Tp., 9 lks. N. of the true
point for the cor. of secs. 25 and 36 and 20 lks.
N. of the witness cor. to the cor. of secs. 25 and
36 heretofore described.
- Thence
N.89°51'W., on true line bet. secs. 25 and 36.
South, 4.00 chs. to pass inaccessible rims of Hatch
Point, then,
N.89°51'W., on offset line, 3.37 chs., then
North, 4.00 chs. to true line at
3.37 Thence N.89°51'W., on true line, over rolling and broke
top of Hatch Point, through dense scrub timber and
short undergrowth.
- 15.90 Low rise, bears about N. and S.; descend very gradually
- 40.01 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
the ground for $\frac{1}{4}$ sec. cor., with brass cap marked
- S25

$\frac{1}{4}$

S36
1927
- From which
- A pinon, 8 ins.diam., bears N.28 $\frac{1}{2}$ °E., 34 lks.
dist., marked $\frac{1}{4}$ S 25 B T
- A pinon, 10 ins.diam., bears S.24°E., 26 lks.
dist., marked $\frac{1}{4}$ S 36 B T
- 44.00 Wash, 30 lks. wide, 3 ft. deep, drains NE.; thence along
rocky N. slope.
- 51.00 Begin ascent over rocky E. slope.
- 65.16 Point of triangulation on top of ledge 350 ft. high and
rim of Hatch Point, bears NE. and SW.; thence by
triangulation over ledges and precipitous talus slope
to
- 80.02 The cor. of secs. 25, 26, 35, and 36, 800 ft. below rim.

Chains

From the top of the bench, high sandstone ledges
and precipitous talus slopes; general N. exposure
and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

Timber, scrub juniper and pinon on bench.

Undergrowth, shadscale, black brush and yellow top.

N. $0^{\circ}01'W.$, bet. secs. 25 and 26.

The line north descends precipitous talus slope facing
NW., down which it is impracticable to chain; there-
fore I triangulate as follows:

Set point "A" on line

to the north and

erect flag "B" at

this point; then,

from "A" measure

base line S. $89^{\circ}59'W.$,

9.187 chs. distant.

From west end of base

flag "B" bears S. 13°

$01'E.$, and points "A"

and "B" subtend an angle

of $77^{\circ}00'$. All bearings

taken by direct reading of the solar and angles

determined by deflection.

Distance by triangulation = 39.79 chs.

Base of steep descent, 400 ft. below sec. cor., bears

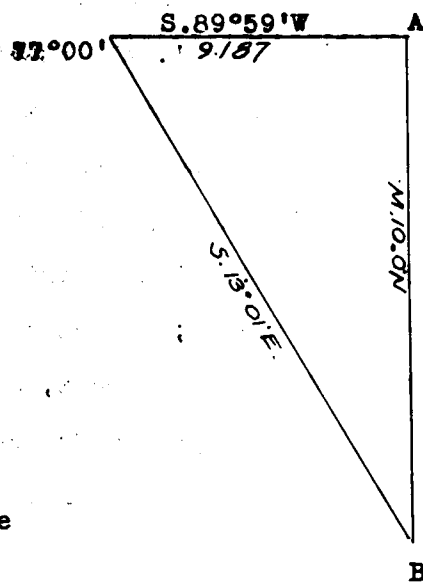
NE. and SW.; thence over nearly level bench land.

Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in

the ground on solid rock and 24 ins. in a mound of

stone for $\frac{1}{4}$ sec. cor., with brass cap marked

Deposit a sandstone, 6x5x2 ins., marked with a cross



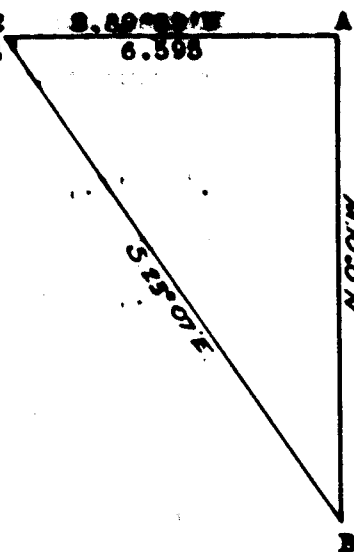
Chains

antian

(X) on one face at base of monument.

24.38 Top of high ledge and rim of bench, bears NE. and SW.; precipitous descent over ledges down which I cannot chain; therefore triangulate as follows:

Set flag "A" on line to the N. and erect flag "B" at this point; then from "A" measure base line S.89°59'W., 6.595 chs. to point "C". The line "CB" bears S.23°07'E. and the angle subtended at "C" is 66°54'. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation = 15.46 chs.

25.34 To N. point of triangulation, 400 ft. below rim of bench; thence over rolling land.

26.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for cor. of secs. 23, 24, 25, and 26, with brass cap marked

T278	R20E
S23	S24
S26	S25
1926	

Deposit sandstone 6x8x9 ins. marked with cross at base land, rolling benches and precipitous breaks; general

N. exposure and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

No timber.

Undergrowth, black brush, yellow top and shade scale.

S.89°57'E., on a random line bet. secs. 24 and 25 for signal at the cor. of secs. 24 and 25 on the N. bdy of the Tp.

26.00 Set temp. 1. sep. 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 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2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 2946, 2947, 2948, 2949, 2950, 2951, 2952, 2953, 2954, 2955, 2956, 2957, 2958, 2959, 2960, 2961, 2962, 2963, 2964, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 2975, 2976, 2977, 2978, 2979, 2980, 2981, 2982, 2983, 2984, 2985, 2986, 2987, 2988, 2989, 2990, 2991, 2992, 2993, 2994, 2995, 2996, 2997, 2998, 2999, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3012, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3029, 3030, 3031, 3032, 3033, 3034, 3035, 3036, 3037, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3051, 3052, 3053, 3054, 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3387, 3388, 3389, 3390, 3391, 3392, 3393, 3394, 3395, 3396, 3397, 3398, 3399, 3400, 3401, 3402, 3403, 3404, 3405, 3406, 3407, 3408, 3409, 3410, 3411, 3412, 3413, 3414, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3423, 3424, 3425, 3426, 3427, 3428, 3429, 3430, 3431, 3432, 3433, 3434, 3435, 3436, 3437, 3438, 3439, 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448, 3449, 3450, 3451, 3452, 3453, 3454, 3455, 3456, 3457, 3458, 3459, 3460, 3461, 3462, 3463, 3464, 3465, 3466, 3467, 3468, 3469, 3470, 3471, 3472, 3473, 3474, 3475, 3476, 3477, 3478, 3479, 3480, 3481, 3482, 3483, 3484, 3485, 3486, 3487, 3488, 3489, 3490, 3491, 3492, 3493, 3494, 3495, 3496, 3497, 3498, 3499, 3500, 3501, 3502, 3503, 3504, 3505, 3506, 3507, 3508, 3509, 3510, 3511, 3512, 3513, 3514, 3515, 3516, 3517, 3518, 3519, 3520, 3521, 3522, 3523, 3524, 3525, 3526, 3527, 3528, 3529, 3530, 3531, 3532, 3533, 3534, 3535, 3536, 3537, 3538, 3539, 3540, 3541, 3542, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3550, 3551, 3552, 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3719, 3720, 3721, 3722, 3723, 3724, 3725, 3726, 3727, 3728, 3729, 3730, 3731, 3732, 3733, 3734, 3735, 3736, 3737, 3738, 3739, 3740, 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3748, 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 37

SUPERVISION OF T. & E. R. 20 E.

Chains

48.85

Line east strikes high ledge rims over which I cannot chain; therefore, triangulate as follows:

Set flag "A" on line

to the east; then, . . . N. 89° 57' E

measure base line

S. 0° 03' E., 5.268

chs. to point "B".

The line "BA" bears B 65° 01'

N. 64° 58' E. and the

angle subtended at "B" is 65° 01'. All bearings taken

by direct reading of the solar and angles checked

by deflection.

Distance by triangulation = 11.31 chs.

E. point of triangulation..

Intersect the cor. of secs. 24 and 25 on the E. bdy. of the Tp. heretofore described.

Thence S. 89° 57' W., on true line bet. secs. 24 and 25.

Descend NW. slope over broken bench land through short undergrowth.

Point of triangulation on top of ledge rim, 150 ft. high and 125 ft. below sec. cor., bears NE. and SW.; thence by triangulation.

Top of rim, bears NW. and SE.

W. point of triangulation.

Top of ledge, bears NE. and SW.; descend abruptly.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

S24

S25

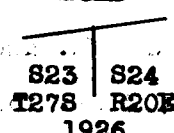
1926

Cor. stands at base of steep descent, 175 ft. below ledge. Thence over gently rolling bench.

Wash, 30 lks. wide, 10 ft. deep, drains NW.

Wash, 10 lks. wide, 2 ft. deep, drains NW.

SURVEYS OF LANDS ACQUIRED BY THE GOVERNMENT

Chains		angle
71.10	Wash, 20 lks. wide, 1 ft. deep, Archaic NW only	88.84
80.06	The cor. of secs. 23, 24, 25, and 26. Archaic NW Land, rolling and rough broken bench; general NW. exposure and drainage. Archaic NW Soil, shallow sand, clay and sandstone rock; 4th. rate. No timber. Archaic NW Undergrowth, black brush, mountain rush, and yellow top <u>Archaic NW</u> N. 0° 01' W., bet. secs. 23 and 24. Archaic NW Gradually descend over NE. slope of rolling bench land through short undergrowth. Archaic NW	
11.60	Trail, bears NE. to Moab, Utah and SW. to Indian Creek.	
14.50	South rim of box canyon, 60 ft. high, bears NE. and SW. descend abruptly. Archaic NW	
17.00	Wash, 80 lks. wide, .3 ft. deep, in canyon, 75 ft. deep, drains NE.; dense undergrowth in canyon.	
23.00	Top of ledge and N. rim of canyon, bears NE. and SW.; gradually descend NE. slope. Archaic NW	
27.60	Set flag for future reference. Archaic NW	
27.67	Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground over a cross (X) cut in solid rock and 20 ins. in a mound of stone for witness cor. to the meander cor. of secs. 23 and 24 on the left bank of the Colorado River, with brass cap marked Archaic NW	
	<div style="text-align: center;">  <p>S23 S24 T278 R208 1926</p> </div>	
	Cor. stands at the base of a low limestone rim, bears E and W. and extends E. about 1 ch. to draw from S. 15° W	
28.04	Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 23 and 24. Archaic NW To determine distance across river, I triangulate as follows: Wash, 30 lks. wide, 10 ft. deep, Archaic NW 04.5 Wash, 10 lks. wide, 3 ft. deep, Archaic NW 05.9	

Chains

SECT 2 Designate flag left at

the 27.60 chs. point

to sec. 23 "A", and set point

at sec. 24 "B" on line on E. side

of river; then, from

"B" measure base line

"BC", S.87°48'E., 6.868

chs. distant. The line

"CA" bears S.22°08'W.

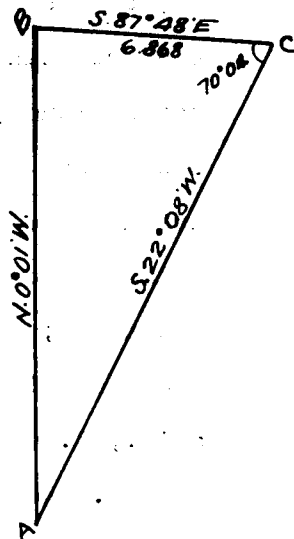
and the angle subtended

at "C" is 70°04'. All

bearings taken by

direct reading of the

solar and angles checked by deflection.



Distance on line to "A" = 27.60 chs.

Distance "AB" by triangulation = 17.12 "

Distance to "B" = 44.72 "

Distance by return measurement = 5.91 "

38.81 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 23 and 24.

39.06 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for witness cor. to the meander cor. of secs. 23 and 24 on the right bank of the Colorado River, with brass cap marked

T27S	R20E
S23	S24

WCMC
1926

Deposit a sandstone, 10x10x6 ins., marked with a cross (X) on one face at base of monument.

Thence over bottom lands through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for 1/4 sec. cor., with brass cap marked

S23	S24
-----	-----

1926

SURVEYING OF SECTION 13, 14, 23, AND 24

Chains

Deposit a sandstone, 6x2x6 ins., marked with a cross (X) on one face at base of monument. Set

49.50

Base of red sandstone rim, 60 ft. high at N. edge of bottom lands, bears NW. and SE.; to determine distance ahead on line I return to the sec. cor. and triangulate as follows:

Set flag "A" on line to

the north; then meas-

ure base line S.89°

59'W., 5.00 chs. dist.

From W. end of base

flag "A" bears N.21°

33'E., and from flag

"A" the W. end of

base bears S.21°33'W.

All bearings taken

by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 12.65 chs.

52.65

To point of triangulation on top of ledges, bears E. and W.; thence across bench.

72.82

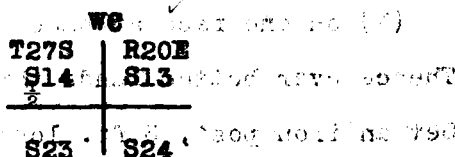
Point for cor. of secs. 13, 14, 23, and 24 will fall on inaccessible slope of solid sandstone spur where cor. cannot be set; therefore, at this point,

On surface rock, mark a cross (X), over which

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in

a mound of stone for witness cor. to the cor. of sec

13, 14, 23, and 24, with brass cap marked



77.00

Deposit sandstone, 6x5x4 ins. marked with cross at base. Approximate distance to top of solid sandstone spur,

250 ft. high, projects E. about 14 chs.

80.00

Point for cor. of secs. 13, 14, 23, and 24 on inaccessible N. slope of spur.

SUBDIVISION OF T127 S., R.20 E.

Chains	
	Land, rolling and rough broken bench lands and river bottom; general E. and S. exposure and drainage to Colorado River which flows W. of W. bank Soil, shallow and deep sand, clay, sandstone and lime- stone creek; 2nd to 4th. rates. No timber. Undergrowth, black brush, mountain rush and yellow top on benches; dense willow, iron brush, and rabbit brush on river bottom. N.89°57'E., on a random line bet. secs. 13 and 24. Being unable to proceed from the true point for the cor. of secs. 13,14,23, and 24 on account of inaccessible sandstone spur, I begin at the witness cor. to said sec. cor. which is 7.18 chs. S.0°01'E. of the true cor. point; thence South, 1.37 chs. to point 8.55 chs. South of cor. of secs. 13,14,23, and 24; then on offset line N.89°57'E., 14.30 chs., then North, 8.55 chs. to true random line at 14.30 Thence N.89°57'E. 21.06 Mean high water mark right bank Colorado River; set temp. meander cor. Thence across river by direct measurement 33.79 Mean high water mark left bank Colorado River; set temp. meander cor. 40.00 Set temp. $\frac{1}{2}$ sec. cor. 80.26 Intersect E. bdy. of the Tp. 7 lks. N. of the cor. of secs. 13 and 24 heretofore described; Thence West, on true line bet. secs. 13 and 24, Over rolling and broken bench land through short under- growth. 2.50 Seep, in wash, bears N. about 5 chs. distant. Poor water. 3.50 Begin gradual descent NW. slope.

SUNDIVISION OF T15738, R. 20 E.

Chains

enlarO

- 20.45 Wash, 40 lks. wide, 3 ft. deep, drains SW.
- 33.70 Same wash, drains NW.; trail, bears NE. to Moab, Utah and SW. to Indian Creek. Thence along bottom lands.
- 40.13 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S13

 $\frac{1}{4}$

S24

1926

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

- 41.20 Same wash as at 33.70 chs., drains SW.

- 45.00 Same wash, drains N.

- 45.93 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for witness cor. to the meander cor. of secs. 13 and 24 on the left bank of the Colorado River, with brass cap marked

W
C
M
C

T27SR20E

S13

S24

1926

Deposit a sandstone, 10x8x6 ins., marked with a cross (X) on one face at base of monument.

- 46.47 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 13 and 24.

Thence across Colorado River by direct measurement.

- 50.80 Sand bar, bears N. and E.

- 59.20 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 13 and 24.

- 59.38 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for witness cor. to the meander cor. of secs. 13 and 24 on the right bank of the Colorado River, with brass cap marked

.atwoc

.atwoc

08.8

.atwoc

08.8

SECTION DIVISION OF T. 27 S., R. 20 E.

Chains

T27SR20E
813
824
W
C
M
C

1926

Deposit a sandstone, 10x8x6 ins., marked with a cross
(X) on one face at base of monument.

Cor. stands in dense willow undergrowth; ascend abruptly.

60.50 Top of sandstone ledge rim, 60 ft. high, bears N. and
S.

65.96 Base of E. point of an inaccessible sandstone spur,
bears N. and S., to pass which I offset ,
South, 8.55 chs., then on offset line,
West, 14.30 chs., then
North, 1.37 chs., to

80.26 The witness cor. to the cor. of secs. 13, 14, 23, and 24,
7.18 chs. S. 0° 01' E. of the true cor. point. Impossible
to continue north to the true cor. point.

Land, rolling and broken with general E. and W. exposure
and drainage to the Colorado River.

Soil, sandy, alluvial, clay and rocky of sandstone form-
ation; 2nd. to 4th. rates.

No timber.

Undergrowth, black brush, mountain rush, yellow top,
willow and iron brush.

N. 0° 01' W., bet. secs. 13 and 14.

Being unable to proceed from the true point for the cor.
of secs. 13, 14, 23, and 24, I begin at the witness cor.
to said sec. cor. which is 7.18 chs. S. 0° 01' E. of the
true cor. point; thence

South, 1.37 chs., then
East, 14.30 chs., then
N. 0° 01' W., 22.55 chs., then

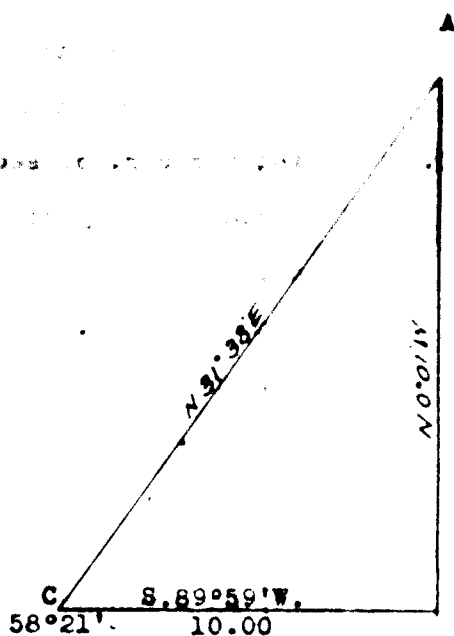
West, 14.30 chs. to true line at

14.30 Base of N. slope of solid sandstone spur, bears E. and
W.; thence over gently rolling bench through short
undergrowth.

Chains	
32.86	Set flag for future reference.
33.15	Top of high ledge and S. rim of box canyon, bears NE. and SW. The vertical walls of this canyon make chaining impracticable; I therefore triangulate as follows: Set point "A" on line to the north and designate flag at C S. 89° 59' W. 10.00 chs. distant. Then, from "A" measure base line "AC", S. 89° 59' W., 10.00 chs. distant. The line "CB" bears S. 43° 45' E. and the angle subtended at "C" = 46° 16'. All bearings taken by direct reading of the solar and angles checked by deflection. Distance on line to "B" = 32.86 chs. Distance "BA" by triangulation = 10.45 " Distance on line to "A" = 43.31 " Distance by return measurement = 3.31 " 40.00
37.00	Approximate distance to bottom of box canyon, 200 ft. deep, drains NE.
40.00	On break of canyon. Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for 1/4 sec. cor., with brass cap marked S14 S13 1926
40.70	N. rim of canyon, 200 ft. above bottom, bears E. and W.
43.31	Point of triangulation; the line north crosses box canyon the vertical walls of which make chaining impracticable. I therefore triangulate as follows:

Chains

(X) Set flag "A" on line to the north; and from the west end of the base or point "C" of the previous triangulation find that flag "A" bears N.31°38'E. and that the angle subtended at "C" = 58°21'. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation = 16.22 chs.

- 44.50 Top of ledge and rim of box canyon, bears E. and W.
- 49.50 Approximate distance to bottom of canyon, 200 ft. deep, drains E.
- 52.00 Approximate distance to SE. point of ledge, 80 ft. high.
- 55.00 Approximate distance to bottom of box canyon draining SE.
- 58.00 Top of ledge and N. rim of canyon, bears NW. and SE.
- 59.53 To point of triangulation; thence over rolling bench.
- 62.00 Head of box canyon, drains E.
- 69.80 Bottom of narrow box gulch, 80 ft. deep, heads 10 chs. west and drains E.
- 78.05 Top of ledge, 150 ft. high and S. rim of box canyon, bears NE. and SW.; point for cor. of secs. 11, 12, 13, and 14 will fall on inaccessible break of canyon; therefore, at this point,
- Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 18 ins. in a mound of stone for witness cor. to the cor. of secs. 11, 12, 13, and 14, with brass cap marked.

VC
T27S R20E
S11 S12
S14 S13
1926

SUBDIVISION OF T. 27 N. R. 35 E.

Chains

51120

Deposit a sandstone 8x6x8 ins., marked with a cross (X) on one face at base of monument.

80.00 Point for cor. of secs. 11, 12, 13, and 14 - inaccessible.

break of canyon; cor. point cannot be reached.

Land, rolling and rough broken bench; general E. exposure and drainage.

Soil, shallow sand and sandstone rock; 3rd. and 4th. rates

No timber.

Undergrowth, shadscale, black brush and yellow top.

East, on a random line bet. secs. 12 and 13.

Being unable to proceed from the true point for the cor.

of secs. 11, 12, 13, and 14 on account of inaccessible

ledges, I begin at the witness cor. to said sec. cor.

which is 1.95 chs. S. 0° 01' E. of the true cor. point,

Thence

East, on offset line, 3.00 chs., then

N. orth, 1.95 chs. to true random line at

3.00 Thence east.

30.29 Mean high water mark on the right bank of the Colorado River; set temp. meander cor.

To determine distance across river I make the following triangulation.

Set point "A" on east

side of river and

erect flag "B" at

this point; then,

from "A" measure

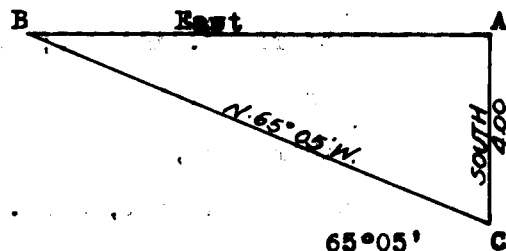
base line "AC" south

4.00 chs. The line

"CB" bears N. 65° 05' W. and the angle subtended at "C"

is 65° 05'. All bearings taken by direct reading of the

solar and angles checked by deflection.



SUBDIVISION OF T.27 S., R.20 E.

Chains

Distance on line to "B"	=	30.29 chs.
Distance "BA" by triangulation	=	8.61 "
Distance on line to "A"	=	38.90 "
Distance by return measurement	=	.30 "
		38.60

38.60 Mean high water mark on the left bank of the Colorado River; set temp. meander cor.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.36 Intersect E. bdy. of the Tp. 9 lks. N. of the cor. of secs. 12 and 13 heretofore described.

Thence

N.89°56'W., on true line bet. secs. 12 and 13.

Gradually descend over rolling bench land through short undergrowth.

2.10 Wash, 40 lks. wide, 3 ft. deep, 30 ft. below sec. cor., drains SW.

8.50 Trail, bears NE. to Moab, Utah and SW. to Indian Creek.

28.00 Top of low sand ridge, bears NE. and SW.; gradually descend.

36.80 Fence bears NE. and SW. and enter bottom lands of the Colorado River.

40.10 Enter dense willow and iron brush, bears N. and S.

40.18 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S12
S13
1926

Deposit a cobble stone, 10x10x6 ins., marked with a cross (X) on one face at base of monument.

11.46 Point of triangulation.

11.62 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for witness cor. to the meander cor. of secs. 12 and 13 on the left bank of the Colorado River, with brass cap marked

SURVEYING OF T.27 S., R.20 E

Chains

antead

V	T27SR20E
C	S12
M	
C	S13

1926

Impracticable to build accessories to cor.

- 41.76 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 12 and 13.

Thence across river by triangulation.

- 50.07 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 12 and 13; cor. point falls on sloping face of surface rock.

- 50.17 Set an iron post, 3 ft. long, 1 in. in dia. 6 ins. in ground on solid rock and 24 ins. in a mound of stone for witness cor. to the meander cor. of secs. 12 and 13 on the right bank of the Colorado River, with brass cap marked

T27SR20E	V
S12	C
	M
S13	C

1926

Deposit a sandstone, 10x10x10 ins., marked with a cross (X) on one face at base of monument.

Cor. stands on a small sandstone shelf. Ascend.

- 50.50 Top of ledge, 70 ft. high, bears N. and S.; thence over rolling top of bench through short undergrowth.

- 77.36 Rim of canyon bears NE. and SW.; inaccessible ledges ahead on line to pass which I offset, South, 1.95 chs., then on offset line N. 89°58'W., 3.00 chs. to

- 80.36 Intersect the witness cor. to the cor. of secs. 11, 12, 13 and 14 which is 1.95 chs. S. 0°01'E. of the true cor. point. Impossible to reach true cor. point.

Land, rolling and broken bench; general E. and W. exposure and drainage to the Colorado River.

Soil, sandy, gravelly, alluvial and rocky of sandstone

DIVISION ON T.27 S., R.20 E.

Chains

formation; 2nd. to 4th. rates.

No timber.

Undergrowth, black brush, mountain rush, yellow top,
willow and iron brush.

N.0°01'W., bet. secs. 11 and 12.

Being unable to proceed from the true point for the cor.
of secs. 11, 12, 13, and 14, I begin at the witness
cor. to said cor. which is 1.95 chs. S.0°01'E. of the
true cor. point, thence

N.0°01'W., counting distances from the true cor. point.
Over rolling and broken bench land through short under-
growth.

2.80 Bottom of canyon and wash, 2.00 chs. wide, 30 ft. deep,
drains E.

21.90 Wash, 90 lks. wide, 25 ft. deep, in draw, drains E.

33.00 Wash, 20 lks. wide, 15 ft. deep, in draw, drains E.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone over a cross (X) cut in solid rock
for 1/4 sec. cor., with brass cap marked

1/4
S11 | S12
1927

41.20 Wash, 50 lks. wide, 30 ft. deep, in draw, drains E.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in
the ground for cor. of secs. 1, 2, 11, and 12, with
brass cap marked

T27S | R20E
S2 | S1
S11 | S12
1927

Deposit a sandstone, 10x6x4 ins., marked with a cross
(X) on one face at base of monument.

Land, rolling and broken bench; general E. exposure and
drainage.

Chains

enclad3

Soil, shallow sand and sandstone rock; 2nd. and 4th. rates.

No timber.

Undergrowth, scattered black brush and yellow top.

S. 89° 56' E., on a random line bet. secs. 1 and 12.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

60.36 Intersect E. bdy. of the Tp. 2 lks. S. of the cor. of secs. 1 and 12 heretofore described.

Thence

N. 89° 57' W., on true line bet. secs. 1 and 12.

Over rolling and broken bench land through short undergrowth.

2.60 Pass of series of sandstone ledges, bears NW. and SE.; ascend abruptly.

11.15 Spur, 215 ft. above sec. cor., projects SE.; descend.

20.20 Wash, 20 lks. wide, 4 ft. deep, in draw, drains SE.; ascend N. slope.

25.10 Top of slope, thence over rolling land.

40.18 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ 81
 812
 1927

Deposit a sandstone, 7 x 5 x 4 ins., marked with a cross (X) on one face at base of monument.

45.00 E. rim of canyon, bears N. and S.

55.10 Bottom of canyon, 145 ft. deep, drains S. 20° E.; a small seep in canyon bears N. 50 lks. distant.

55.00 W. rim of canyon, bears N. and S.

65.70 E. rim of canyon, bears NW. and SE.

70.50 Bottom of canyon, 150 ft. deep, drains SE.

74.60 W. rim of canyon, bears NW. and SE.

80.36 The cor. of secs. 1, 2, 11 and 12.

Land, rolling and broken bench; general SE. exposure and drainage.

Soil, shallow sand and sandstone rock; 2nd. to 4th. rates.

SUBDIVISION OF T.27 S., R.20 E.

Chains

No timber.

Undergrowth, shadscale, yellow top and grass.

N.0°01'W., on true line bet. secs. 1 and 2.

Over rolling and broken bench land draining SE., through short undergrowth.

9.50 S. rim of box canyon, approximately 10 chs. wide and 150 ft. deep draining SE., bears NW. and SE. Vertical sandstone ledges make chaining across canyon impracticable; I therefore triangulate as follows:

Set point "A" on line

N. and designate the cor. of secs. 1, 2, 11,

and 12, "B"; then, from

"A" measure base line

"AC", N.89°59'E., 7.193

chs. The line "CB" bears

S.9°29'W. and the angle

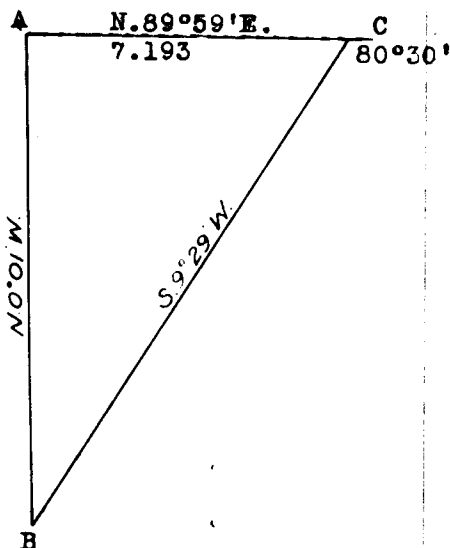
subtended at "C" is

80°30'. All bearings

taken by direct

reading of the solar

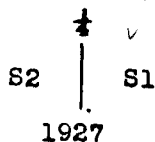
and angles checked by deflection.



Distance by triangulation = 42.99 chs.

Distance by return measurement = 2.99 "

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground on solid rock and 10 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked



Deposit a sandstone, 12x8x6 ins., marked with a cross (X) on one face at base of monument.

RECONSTRUCTION OF T. 26 S., R. 20 E.

Chains

- 71.40 Telephone line, bears NE, and SW. on top of ridge bearing E. and W.
- 75.10 Top of sandstone rim, bears E. and NW.; descend 75 ft. to
- 81.50 Wash, 20 lks. wide, 3 ft. deep, in draw. Grades SE.; ascend.
- 87.40 Intersect N. bdy. of the Tp., 7.20 chs. east of the $\frac{1}{4}$ sec. cor. S. bdy. of sec. 35, T. 26 S., R. 20 E., which is an iron post, 1 in. in dia., firmly set, and marked and witnessed as described in the official field notes of the survey of T. 26 S., R. 20 E.
- At point of intersection,
- Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for closing cor. of secs. 1 and 2; with brass cap marked

T26S R20E	
S35	
S2	S1
T27S	R20E
CC	
1927	

Land, rolling and broken bench land.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Undergrowth, black brush, mountain rush, yellow top and grass.

From the cor. of secs. 2, 3, 34, and 35 on the S. bdy. of the Tp. which is an iron post, 2 ins. in dia., firmly set, and marked and witnessed as described in the official field notes of the survey of T. 26 S., R. 20 E. book "B" this group.

N. 0° 01' W., bet. secs. 34 and 35.

Over broken top of Hatch Point through dense scrub timber and short undergrowth.

11.32 Set flag for future reference.

11.58 Top of high ledge and rim of bench, also leave timber

SUBDIVISION T-27 SV, R-20 E.

Chains

bears E. and W. Precipitous descent over high ledges and steep talus slope down which I cannot chain; therefore triangulate as follows:

Set point "A" on line $S.89^{\circ}59'W.$ 10.00 to the north and designate flag at 11.32 chs. point "B". Then, from "A" measure base line "AC" $S.89^{\circ}59'W.$, 10.00 chs. distant. The line "CB" bears $S.19^{\circ}14'E.$, and the angle subtended at "C" is $70^{\circ}47'$. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation	= 28.69 chs.
Distance on line to "B"	= 11.32 "
Distance on line to "A"	= 40.01 "
Distance by return measurement	= .01 "

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

\uparrow
 S34 | S35
 1926

Cor. stands at base of steep descent from bench, 1000 ft. below rim, bears E. and W.; continue descent over N. slope.

64.35 Wash, 160 ft. below $\frac{1}{4}$ sec. cor., drains NE.; thence along E. slope.

68.50 Trail, from Moab, Utah to Indian Creek, bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for cor. of secs. 26, 27, 34, and 35, with brass cap marked

SURVIVISTON FOR THE YEAR 1926 E.

Chains

1275 120W 120W 120W 120W
S27 S26
S34 S35
1926

Land, rolling and broken benches and precipitous slopes;
general N. exposure and drainage.
Soil, shallow sand, clay and rocky of sandstone form-
ation; 2nd. to 4th. rates.
Timber, scrub juniper and pinon on S. 11.55 chs.
Undergrowth, black brush, mountain rush, yellow top and
grass.

S. 89°55'E., on a random line bet. secs. 26 and 35.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.94 Intersect N. and S. line 9 lks. S. of the cor. of secs.
25, 26, 35, and 36.

Thence

N. 89°59'W., on true line bet. secs. 26 and 35.

Descend abruptly over broken NW. slope through short
undergrowth.

11.70 Wash, 40 lks. wide, 8 ft. deep, 405 ft. below sec. cor.
drains N.; ascend.

15.80 Spur, 40 ft. above wash, projects N.; descend.

18.10 Wash, 40 lks. wide, 6 ft. deep, drains NE.; thence along
broken N. slope ascending and descending.

35.00 Trail, from Moab, Utah to Indian Creek, bears NE. and S.

39.97 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone over a cross (X) cut in solid rock
for $\frac{1}{4}$ sec. cor., with brass cap marked

S26

+

S35
1926

50.90 Spur, projects N.; descend 100 ft. to base of descent.

53.35 Trail, from Moab, Utah to Indian Creek, bears NE. and S.

61.40 Base of descent; thence along N. and E. slopes.

69.15 Trail, from Moab, Utah to Indian Creek, bears NW. and S.
draw, drains N. 15°E.

79.94 The cor. of secs. 26, 27, 34, and 35, 165 ft. above base

SURVEYING OF T.24 S., R.20 E.

Chains

at end of descent.

Land, rough and broken; general N. exposure and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.
No timber.

Undergrowth, black brush, mountain rush, and grass.

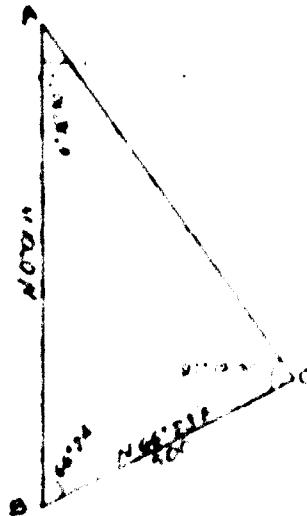
N.0°01'W., bet. secs. 26 and 27.

Descend NW. slope over broken bench land through short undergrowth.

1.80 Trail, from Moab, Utah to Indian Creek, bears E. and W.

19.09 Top of high ledge rim on S. side of box canyon, bears NE. and SW.; vertical walls of canyon make chaining impracticable; therefore I triangulate as follows:

Set flag "A" on line to the North and designate this point "B". Then, with the transit over "B" and the telescope directed to "A" deflect an angle of $66^{\circ}24'$ to the right and measure base line "BC" N. $66^{\circ}23'E.$, 5.00 chs. distant. The angles subtended at "A" and "C" determined by repetition are $16^{\circ}16'30''$ and $97^{\circ}19'30''$ respectively.



Distance by triangulation = 17.70 chs.

26.00 Approximate distance to bottom of canyon, about 160 ft. deep, drains NE.

36.79 Point of triangulation on spur, projects E.; descend.

38.22 The point for the $\frac{1}{4}$ sec. cor. will fall on steep, sloping side of box canyon where it is impracticable to establish a cor.; therefore, at this point

SURVEY DIVISION OF THE U.S. ARMY

Chains

entire

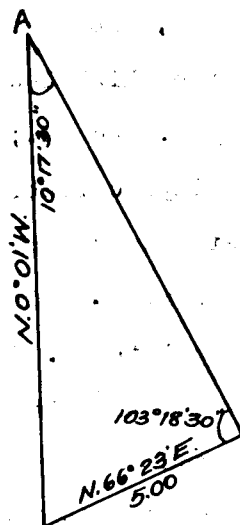
Set an iron post, 3 ft. long, 1 in. in dia. 30 ins. in a mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked



1926

The line north crosses a box canyon the slopes of which are inaccessible; I therefore triangulate as follows:

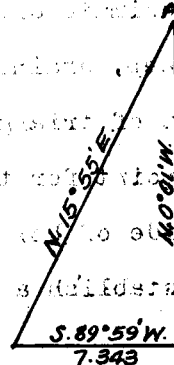
Set flag "A" on line to the north; I now return to the 19.09 chs. point and use the base line of the previous triangulation (N.66°23'E., 5.00 chs.) and find that the angles subtended at "A" and "C" determined by repetition are 10°17'30" and 103°18'30" respectively.



Distance by triangulation = 27.24 chs.

- 40.00 Point for $\frac{1}{4}$ sec. cor. on inaccessible slope of canyon.
- 43.00 Bottom of box canyon, drains E.
- 46.33 Point of triangulation on ridge, bears E. and W.; descends N. slope.
- 48.50 Top of ledge rim, bears E. and W.; precipitous descent over ledge impracticable to chain, therefore triangulate as follows:

Set point "A" on line to the north, then measure base line S.89°59'W., 7.343 chs. From W. end of base flag "A" bears N.15°55'E.



SUBDIVISION OF T27S, R20E.

Chains

All bearings taken by direct reading of the solar and
all angles determined by deflection.

Distance by triangulation = 25.72 chs.

69.00 Approximate distance to wash, 50 lks. wide, 2 ft. deep,
drains SE.

74.16 Top of isolated sandstone butte or ridge, bears W. about
25 and E. about 5 chs. distant.

74.22 Point of triangulation; descend abruptly.

78.70 Base of steep descent, 140 ft. below ridge, bears E. and
W.; thence over rolling land.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in
a mound of stone over a cross (X) cut in solid rock
for cor. of secs. 22, 23, 26, and 27, with brass cap
marked

T27S	R20E
S22	S23
S27	S26

1926

Land, rough broken bench; general N. exposure and drainage.

Soil, shallow sand, clay and rocky of sandstone formation;

2nd. to 4th. rates.

No timber.

Undergrowth, black brush, mountain rush and yellow top.

S. 89° 59' E., on a random line bet. secs. 23 and 26.

0.00 Set temp. $\frac{1}{4}$ sec. cor.

0.80 Line E. strikes the N. point of a solid sandstone point
over which I cannot chain; to pass point I offset as
follows:

North, 1.90 chs., then on offset line

S. 89° 59' E., 19.04 chs., then

South, 1.90 chs., to true random line

8.84 Intersect N. and S. line 12 lks. S. of the cor. of secs.

22, 24, 25, and 26.

Thence

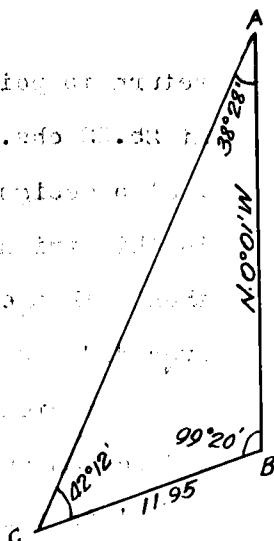
SUBDIVISION OF T.22S. R.12E. S.1

Chains

- S.89°56'W., on true line bet. secs. 23 and 26.
Over rough broken bench land through short undergrowth.
To pass N. point of a sandstone point, I offset,
North, 1.90 chs., then on offset line
S.89°56'W., 19.04 chs. At 5.20 chs.; swale, drains N.
At 10.80 chs. extreme N. edge of
sandstone point.
South, 1.90 chs. to true line at
- 19.04 Thence over rolling and broken ground.
- 27.75 Trail, from Moab, Utah to Indian Creek, bears NE. and S
- 32.00 Top of ledge and E. rim of small box canyon, bears NE.
and SW.; descend.
- 33.50 Wash, 40 lks. wide, 4 ft. deep, in canyon, 75 ft. deep.
drains NE.; ascend
- 37.85 Top of ledge and west rim of canyon, bears NE. and SW.
- 39.92 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone over a cross (X) cut in solid rock
for $\frac{1}{4}$ sec. cor., with brass cap marked
- S23
 $\frac{1}{4}$
S26
1926
- 44.75 Wash, 35 lks. wide, 4 ft. deep, drains SE..
- 61.80 Swale, drains SE.;
- 79.84 The cor. of secs. 22, 23, 26, and 27.
Land, rolling and broken bench; general N. exposure and
drainage.
Soil, shallow sand, clay and sandstone rock; 4th. rate
No timber.
Undergrowth, black brush, mountain rush, and yellow to
- N.0°01'W., bet. secs. 22 and 23.
Over rolling bench land through short undergrowth.
- 12.80 Trail, bears E. and W.
- 25.32 Top of high ledge and S. rim of the Colorado River Can
bears E. and W.; precipitous descent over high ledge
down which I cannot chain; therefore triangulate as
follows :

Chains

Set flag "A" on line to the N., and designate this point "B"; then, with transit over "B" and the telescope directed to "A" deflect an angle of $99^{\circ}20'$ to the left and measure base line "BC", 11.95 chs. distant. The angles subtended at "A" and "C" determined by repetition are $38^{\circ}28'$ and $42^{\circ}12'$ respectively.



Distance by triangulation = 12.90 chs.

32.00 Approximate distance to base of slope and S. edge of canyon bottom, bears E. and W.; thence over bottom lands through dense undergrowth.

38.22 Point "A" of triangulation.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. and witness cor. to the meander cor. of secs. 22 and '23 on the left bank of the Colorado River, with brass cap marked

WC	$\frac{1}{4}$	MC
S22 T27S		S23 R20E

1926

Deposit a sandstone, 4x4x2 ins., marked with a cross (X) on one face at base of monument.

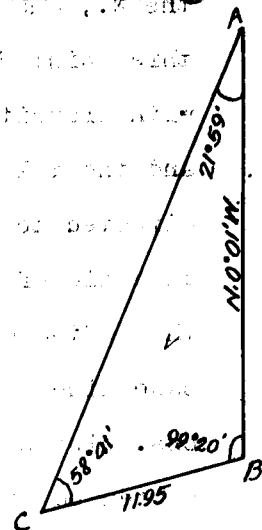
40.21 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 22 and '23.

To determine distance to north side of river, I triangulate as follows:

Set flag "A" on line on north side of river and then

Chains

return to point "B" of the previous triangulation at 25.32 chs. which I also designate "B" in this triangulation; then with the transit over "B" and the telescope directed to "A" deflect an angle of $99^{\circ}20'$ to the left and measure base line "BC" 11.95 chs. distant. The angles subtended at "A" and "C" determined by repetition are $21^{\circ}59'$ and $58^{\circ}41'$ respectively.



Distance on line to "B"	= 25.32 chs.
Distance "AB" by triangulation	= 27.27 ✓ "
Distance on line to "A"	= 52.59 ✓ "
Distance by return measurement	= .46 "
	<u>52.13 ✓ "</u>

52.13 Intersect mean high water mark on the right bank of the Colorado River.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for meander cor. of secs.22 and 23, with brass cap marked

T27S	R20E
S22	S23

MC
1926

From which

E. face of sandstone ledge, 6 ft. above base of slope, and 15 ft. above meander line, marked X BO S22, bears $N.78^{\circ}28'W.$, $49\frac{1}{2}$ lks. distant. A deep cross (X) cut on NE face of sloping soft red sandstone boulder, bears $N.0^{\circ}02'W.$, 61 lks. distant.

52.59 Point "A" of triangulation; thence over broken ground.

80.00 In draw, drains SE.

Chain

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for cor. of sec. 14, 15, 22, and 23, with brass cap marked

T278	RECOR
815	814
822	823
1926	

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. From this cor. a sandstone boulder, 6 ft. diam., 25 ft. high, standing on an eroded pedestal 8 ins. diam., bears S. 71° 45' W., 57 lks. distant.

Land, rolling and rough broken bench; general N. and S. exposure and drainage to Colorado River.

Soil, shallow sand, alluvial and rocky of sandstone formation; 1st. to 4th. rates.

No timber.

Undergrowth, black brush, mountain rush, yellow top, willow and iron brush.

N. 89° 56' E., on a random line bet. sec. 14 and 23.

The line east ascends high ledge rim up which I cannot chain; therefore triangulate as follows.

Set point "A" S. 89° 56' W.,

1.79 chs. distant and

then from "A" set flag

"B" on random line to

the east. With the

transit over "B" and

the telescope directed

to "A" deflect an angle

of 47° 21' to the left

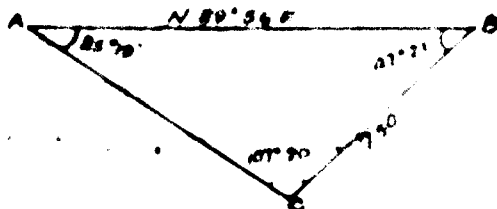
and measure base line "BC", 7.50 chs. distant. The

angles subtended at "A" and "C" determined by

repetition are 23° 19' and 107° 20' respectively.

Distance by triangulation = 16.74 chs., from which

subtract 1.79 chs. =



SUBDIVISION OF T.27 S. R.22 E.

Chains

entire

14.95 To point "B". The line east from this point ascends high ledge rims up which I cannot chain; therefore I triangulate as follows:

Set point "A" on line

to the east and

with the telescope

of the transit

directed to "A"

deflect an angle

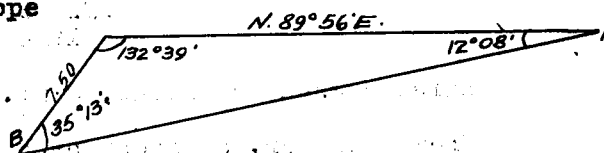
of $132^{\circ}39'$ to the

right and measure

base line 7.50 chs. to point "B". The angles subtend

at "A" and "B" determined by repetition are $12^{\circ}08'$

and $35^{\circ}13'$.



Distance by triangulation = 20.58 chs.

35.53 Line east strikes an inaccessible butte, to pass which I offset as follows:

N. $0^{\circ}04'W.$, 3.65 chs., then on offset line

N. $89^{\circ}56'E.$, 6.29 chs., then

S. $0^{\circ}04'E.$, 3.65 chs. to true random line at

41.72 Set temp. $\frac{1}{4}$ sec. cor.; true point for temp. $\frac{1}{4}$ sec. cor.

1.72 chs. S. $89^{\circ}56'W.$ falls on inaccessible ground.

The line east passes over high sandstone ledge points and deep box canyon across which it is impossible to chain; therefore, I triangulate as follows:

Set flag "A", S. $77^{\circ}27'E.$,

and erect flag "B" at

this point; then from

"A" measure base line

"BC", S. $0^{\circ}01'E.$, 18.88

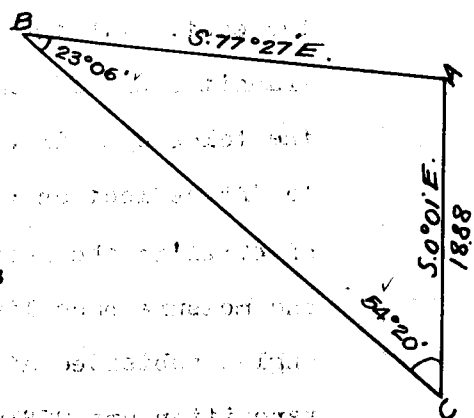
chs. The line "CB" bears

N. $54^{\circ}21'W.$, and the

angles subtended at "B"

and "C" are $23^{\circ}06'$ and

$54^{\circ}20'$ respectively.



SUBDIVISION OF T.27 S., R.20 E.

Chains

Distance Line "BA" by triangulation = 39.09 chs. or an
 easting of 38.16 chs. and southing of 8.49 chs.
 41.72 chs. + 38.16 chs. = 79.88 chs.

79.88 To point "A" of triangulation, 8.53 chs. south of true
 random line; thence
 North, 1.24 chs. to the witness cor. to cor. of secs.
 13, 14, 23, and 24, established 7.18 chs. S.0°01'E.
 of the true point for said sec. cor. which falls on
 inaccessible sandstone spur.

The bearing of the line bet. secs. 14 and 23 therefore
 is S.89°59'W., and the distance is 79.88 chs.

Being unable to run on true line on account of high sand-
 stone ledges, I run from the witness cor. to the cor.
 of secs. 13, 14, 23, and 24 which is 7.18 chs. S.0°01'E.
 of the true cor. point as follows:

S.0°01'E., 20.18 chs., then
 N.12°38'W., 27.27 chs., then
 N.88°28'W., 27.87 chs., then
 West, .13 chs., then
 North, .02 chs. to true line at

33.95 The true point for the $\frac{1}{4}$ sec. cor. bet. secs. 14 and
 23 falls on inaccessible ground; therefore, at this
 point,

Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in
 the ground on solid rock and 24 ins. in a large mound
 of stone for witness cor. to the $\frac{1}{4}$ sec. cor., with
 brass cap marked

S14

WC $\frac{1}{4}$

S23

1926

From which

Red sandstone ledge facing east, marked BO X 23
 bears S.60°W., 51 lks. distant.

Red sandstone boulder, 8x6x4 ft., facing S.,
 marked BO X 14, bears N.12°W., 61 lks. dist.

SURVEY OF S. 23 IN T. 20 N. R. 10 E.

Chains

38.16

Point of triangulation on top of narrow shallow high ledge rim, bears N. and S.; thence an offset line to pass high inaccessible sandstone butte.

N.0°01'W., 3.65 chs., then on offset line

S.89°59'W., 44.45 chs. (counted from sec. cor.)

At 39.90 chs. point for 1 sec. cor.

3.65 chs. S.0°01'E. falls on inaccessible ledge.

At 40.65 chs. saddle in high spur bears N. and S.; spur projects

S.0°01'E., 3.65 chs. to true line at

44.45

Point of triangulation on sloping sandstone ledges on W. slope of butte; thence by triangulation over ledges.

52.00

Approximate base of ledges, bears N. and S.; thence on bench.

64.93

Point of triangulation on top of limestone rim, bears NE. and SW.

72.00

Approximate distance to rocky draw, drains SW.

79.88

The cor. of secs. 14, 15, 22, and 23.

Land, rough, rugged ledges and broken bench; general exposure and drainage.

Soil, sandstone rock, shallow sand and clay; 4th. rat No timber.

Undergrowth, black brush, mountain rush and yellow to

N.0°01'W., bet. secs. 14 and 15.

Over rough broken bench land through short undergrowth

The line north ascends high ledge rim or wall of canyon up which I cannot chain; therefore, I triangulate as follows:

Set flag "A" on line to

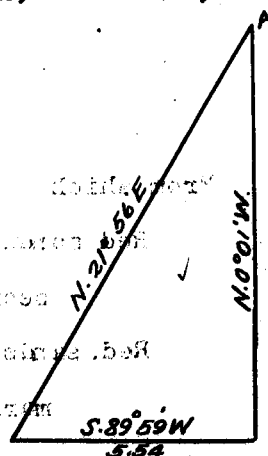
the north; then measure

base line, S.89°59'W.,

5.54 chs. distant. From

west end of base flag

"A" bears N.21°56'E.

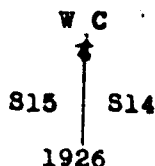


SUBDIVISION OF T.27 S., R.20 E.

Chains

Distance by triangulation = 13.75 chs. ✓

- 13.75 Top of ledge and rim of canyon, bears NE. and SW.;
thence over broken bench land, limestone formation.
- 25.00 Shallow wash, 20 lks. wide, drains SE.
- 34.25 Same wash, drains SW.
- 39.24 True point for $\frac{1}{4}$ sec. cor. will fall on inaccessible
slope where cor. cannot be set; therefore, at this
point,
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone over a cross (X) cut in solid rock for
witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap
marked



From which

A cross cut in a ledge, about 5' above the
ground, bears N $44^{\circ}00'$ E, marks. X B0., 45 lks. dist.

A cross, cut in a ledge, about 5' above the
ground, bears N $47^{\circ}15'$ W, 41 lks, distant, marks
X B0.

- 40.00 True point for $\frac{1}{4}$ sec. cor., on steep slope of solid
rock where cor. cannot be set; line north of this
point passes over a sandstone spur, 150 ft. high,
projecting west, to pass which I return to a point
at 38.45 chs. on this line and offset as follows:
West, 7.00 chs., then on offset line,
N. $0^{\circ}01'$ W., 41.55 chs. At 57.00 chs. (counted from sec.
cor.) line strikes W. edge of
rock, 50 ft. high, projecting from
the east.
- East, 7.00 chs., to true line, on which at
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in
the ground on solid rock and 16 ins. in a mound of
stone for cor. of secs. 10, 11, 14, and 15, with brass

SURVEY OF T. 27 S., R. 22 E.

Chains

cap marked

1278	2202
810	811
815	814
1926	

Deposit a limestone, 7x5x3 ins., marked with a cross. (on one face at base of monument.

Land, rough broken bench; general S. exposure and drainage.

Soil, shallow sand, sandstone and limestone rock; 4th. rate.

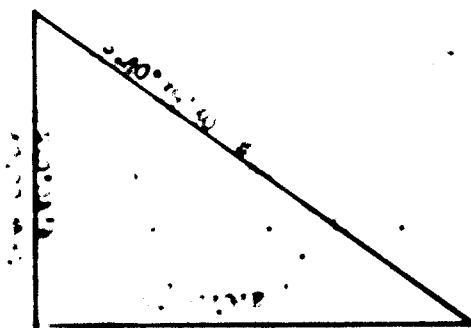
No timber.

Undergrowth, black brush, mountain rush, yellow top and grass.

N. 89° 59' E., on a random line bet. secs. 11 and 14.

The line east ascends high ledges on west slope of precipitous sloped ridge up which I cannot chain; therefore, I triangulate as follows:

From a point 07 lks. S 0° 01' E of the cor. of secs. 10, 11, 14 and 15, set a flag 'B' N 89° 40' E in a gap in a high ridge; then from a point 40.13 chs. N 0° 0' E of the same corner, flag 'B' bears S 40° 39' 30" E; Easting by triangulation 34.34 chs,



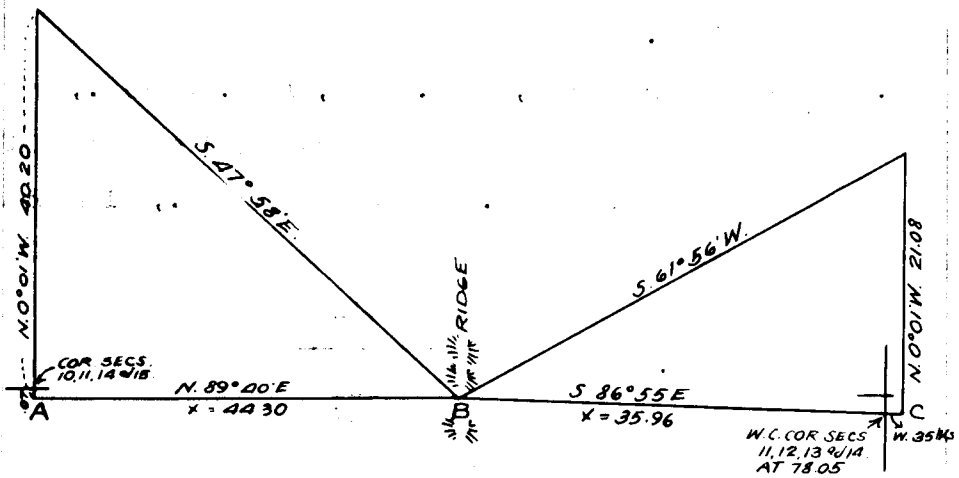
34.34 Point of triangulation on W. slope of ridge; set temp. t

2. SUBDIVISION OF T124S, R. 20 E.

Chains

sec. cor. at this point as true point for said cor. falls on inaccessible break of ridge.

The line east from this point ascends high ledge breaks to top of a sharp sandstone ridge, then descends high ledges on E. slope over which it is impossible to chain; I therefore determine the bearing and distance of this mile in accordance with the method as shown on the following diagram:



Distance "AB" by triangulation	= 44.30 chs.
Distance "BC" by triangulation = 35.96 chs., or easting of	
Distance "AC" reduced to cardinal	<u>35.91</u> "
Subtract distance "C" to witness cor. to cor. of secs. 11, 12, 13, and 14	= 80.21 "
Distance bet. cor. of secs. 10, 11, 14, and 15 and true point cor. secs. 11, 12, 13, and 14	<u>.35</u> "
	79.86 "

.26 chs. - .07 chs. = .19 chs. distance "B" is N. of cor. of secs. 10, 11, 14, and 15.

1.95 chs. - 1.93 chs. = .02 chs. distance "B" is S. of true point for cor. of secs. 11, 12, 13, and 14.

.19 chs. + .02 chs. = .21 chs. distance cor. of secs. 10, 11, 14, and 15 is S. of the true point for the cor. of secs. 11, 12, 13, and 14.

The bearing of the line bet. secs. 11 and 14 therefore is S. 89° 51' W., and the distance is 79.86 chs.

Thence

S. 89° 51' W., on true line bet. secs. 11 and 14, counting distances from true cor. point for cor. of secs. 11, 12,

SECTION 10, 11, 14, AND 15, T. 100 N., R. 100 E., S. 100 E.

Chains

- 10.00 Along rugged N. breaks of canyon and no alluvial
- 20.00 Approximate distance to rim of canyon, from NW. and SE.; thence over bench. to top of ridge
- 35.91 Approximate distance to base of high ridge broken by high sandstone ledges, between N. and S.; thence by triangulation to same point as above
- 38.93 Point of triangulation on top of ridge, between N. and S. precipitous descent over W. slope broken by ledges.
- 45.52 Point for $\frac{1}{4}$ sec. cor. falls on inaccessible W. slope of ridge.
- Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

S11

$\frac{1}{4}$

WC

S14
1927

Thence by triangulation to

- 79.86 The cor. of secs. 10, 11, 14, and 15.

Land, rough broken bench and high sandstone rims and ledges; general E. and W. exposure and drainage from ridge at 35.91 chs.

Soil, shallow sand, sandstone and limestone rock; 4th rate.

No timber.

Undergrowth, black brush, mountain rush and yellow to

N. 0° 01' W., bet. secs. 10 and 14 to S. 0° 01' E.

Over rolling bench land through short undergrowth.

- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in

the ground on solid rock and 25 chs. from S. cor. of stone for $\frac{1}{4}$ sec. cor. to with brass cap marked

thence

to S. 0° 01' W. on true line bet. sec. 11 and 14

to S. 0° 01' E. on true line bet. sec. 14 and 15

2 SUBDIVISION OF T. 27 S. R. 20 E.

Chains

$\frac{1}{4}$
 S10 | S11
 1927

(X) Deposit a sandstone, 4x3x2 ins., marked with a cross (X) on one face at base of monument.

56.60 Telephone line, bears NE. and SW.

66.90 Trail, bears NE. and SW.

70.40 Wash, 40 lks. wide, 2 ft. deep, drains SW.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for cor. of secs. 2, 3, 10, and 11, with brass cap marked

T27S | R20E
 S3 | S2
 S10 | S11
 1927

Deposit a sandstone, 6x5x4 ins., marked with a cross (X) on one face at base of monument.

Land, rolling bench.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Undergrowth, black brush, mountain rush, yellow top and grass.

N. 89° 51' E., on a random line bet. secs. 2 and 11.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.82 Intersect N. and S. line 17 lks. N. of the cor. of secs. 1, 2, 11 and 12.

Thence

S. 89° 58' W., on true line bet. secs. 2 and 11.

Gradually ascend over rolling bench land through short undergrowth.

39.91 Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

Chains

82

662
SRI
1927

Deposit a sandstone, 7x7x6 ins., marked with a cross (X) on one face at base of monument.

Cor. stands on top of ridge, bears N. and S.; thence descend over gradual W. slope.

58.90 Telephone line, bears NE. and SW.

64.00 Trail, bears NE. and SW.

79.82 The cor. of secs. 2, 3, 10 and 11.

Land, rolling bench; general E. and W. exposure and drainage from ridge at the $\frac{1}{4}$ sec. cor.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Undergrowth, black brush, mountain rush, yellow top and grass.

N.0°01'W., on true line bet. secs. 2 and 3.

The line north ascends a steep talus slope broken by ledges up which it is impracticable to chain; I therefore triangulate as follows:

Set flag "A" on line

north, then measure

base line, west, 14.58

chs. From W. end of

base flag "A" bears

N.17°21'E. The angles

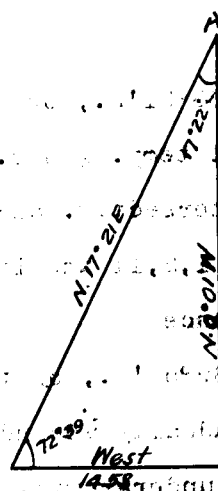
subtended at "A" and

at W. end of base

determined by repetition

are 17°22' and 72°39'

respectively.



Distance by triangulation = 46.62 chs.

Distance by return measurement = 46.58' W

The topography from the sec. cor. is:

Gradually ascend over rolling bench land through short

SUBDIVISION OF T.27 S., R.20 E.

Chains

undergrowth.

20.00

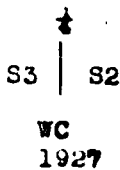
Approximate distance to base of high spur, bears E. and W.

40.00

Point for $\frac{1}{4}$ sec. cor. falls on inaccessible slope of spur.

46.58

Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in the ground over a cross (X) cut in solid rock and 26 ins. in a mound of stone for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked



Cor. stands on top of high spur, projects E.; gradually descend.

46.62

Point of triangulation.

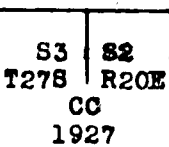
87.20

Intersect N. bdy. of the Tp., 7.28 chs. east of the $\frac{1}{4}$ sec. cor. S. bdy. sec. 34, T.26 S., R.20 E., which is an iron post, 1 in. in dia., firmly set, and marked and witnessed as described in the official field notes of the survey of T.26 S., R.20 E.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for closing cor. of secs. 2 and 3, with brass cap marked

T26S R20E
S34



Land, rolling and rough broken bench; general S. drainage. Soil, shallow sand, clay and sandstone rock; 4th. rate. No timber.

Undergrowth, black brush, mountain rush, yellow top and grass.

SUBDIVISION OF T.27 S., R.20 E.

Chains

enlarged

N.0°02'W., bet. secs. 33 and 34.

The true point for the cor. of secs. 3, 4, 33, and 34 on the S. bdy. of the Tp. being inaccessible, I begin at a point 7.24 chs. S., also, 3.27 chs. S. of the witness cor. to said sec. cor., which is an iron post 2 ins. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T.28 S., R.20 E., book "B" this group.

Thence by triangulation as follows:

Set point "A" on line

N.0°02'W., and erect

flag "B" at this

point; then, with

transit over "A" and

the telescope directed

to "B" deflect an angle

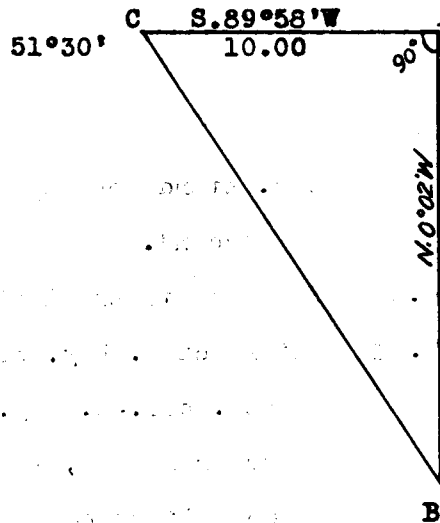
of 90°00' to the right,

and measure base line

"AC", S.89°58'W., 10.00

chs. distant. The angle

subtended at "C" is 51°30'



Distance by triangulation = 12.57 chs. from which subtract 7.24 chs. gives

5.33 Top of high spur from Hatch Point, projects W. about 25 chs.; precipitous descent over slope of spur makes chaining impracticable; I therefore triangulate to the N. as follows:

Set flag "A" on line

to the north, then

measure base line

S.89°58'W., 10.00

chs. to point "B".

The angle subtended at

"B" is 50°58'.

B 50°58'

Distance by triangulation = 12.33 chs.

S. 89° 58' W., 10.00

17.66 Foot of precipitous slope, 300 ft. below spur, bears NE.

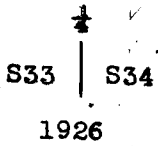
SUBDIVISION OF T.27 S., R.20 E.

Chains

and SW.; thence gradually descend NW. slope of broken bench land through short undergrowth.

38.70 Top of ledge, 10 ft. high, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked



40.50 Wash, 20 lks. wide, 3 ft. deep, in head of canyon, 75 ft. below 17.66 chs. point, drains SW.; ascend.

41.00 Top of ledge, 25 ft. high, bears E. and W.; thence over land sloping westward.

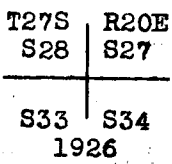
48.10 Wash, 30 lks. wide, 2 ft. deep, drains SW.; ascend.

51.00 Top of ledge, 40 ft. high, bears E. and W.; thence over bench.

63.00 Begin gradual descent over N. slope.

66.80 Wash, 20 lks. wide, 3 ft. deep, drains SW.; ascend 50 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for cor. of secs. 27, 28, 33, and 34, with brass cap marked



Land, rolling and rough broken bench; general W. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Undergrowth, shadscale, black brush, mountain rush and yellow top.

SUBDIVISION OF T.27 N. R.20 E.

Chains

S.89°55'E., on a random line bet. secs. 27 and 34.

Line east ascends high ledges up which I cannot chain; therefore triangulate as follows:

Set flag "A" on line

to the east, then

measure base line

S.0°02'E., 16.75

chs. to point "B".

The line "BA" bears

N.53°58'E., and the

angles subtended at

"A" and "B" determined by repetition are 36°07' and

54°00' respectively.

Distance by triangulation = 22.99 chs.

27.16

Line east descends high ledges on E. slope of ridge down which I cannot chain; I therefore triangulate as follows:

Set point "A" on line

to the east; designate this point "B"

and measure base line

"BC", S.10°40'E., 8.999

chs. The line "CA" bears

N.61°45'E., and the

angles subtended at "A"

and "C" determined by repetition are 28°20' and

72°25' respectively.

Distance on random line to "B"	= 27.16 chs
Distance "BA" by triangulation	= 18.08 ✓ "
Distance on random line to "A"	= 45.24 ✓ "
Distance by return measurement	= 5.24 "

40.00

Set temp. $\frac{1}{4}$ sec., cor.

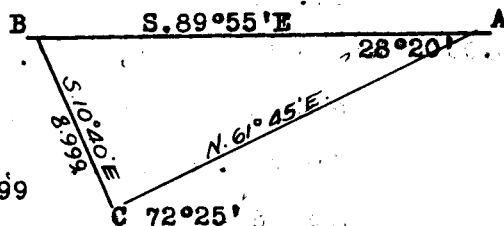
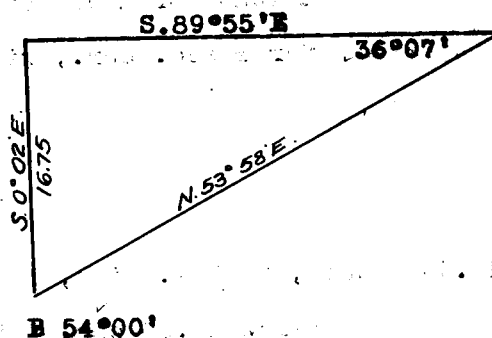
80.14

Intersect N. and S. line 9 lks. S. of the cor. of secs. 26, 27, 34, and 35.

Thence

N.89°59'W., on true line bet. secs. 27 and 34.

Along N. slope over broken bench land through short



SUBDIVISION OF T.27 S., R.20 E.

Chains

undergrowth.

- 15.15 Rim, 10 ft. high, bears N. and S.; descend.
 20.15 Wash, 30 lks. wide, 20 ft. deep, drains N.; ascend.
 34.80 Point of triangulation.
 35.40 Trail, from Moab, Utah to Indian Creek, bears N. and S.
 40.07 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
 a mound of stone over a cross (X) cut in solid rock
 for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ $\frac{S27}{S34}$
 1926

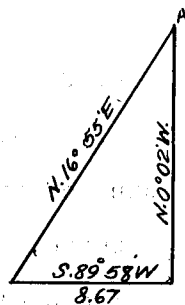
Cor. stands at base of two sandstone colums or monuments
 25 ft. base and 50 ft. high, 65 ft. above wash.
 Thence by triangulation over high ledges on E. slope
 of ridge.

- 52.98 Top of ledge and point of triangulation, bears N. and S.
 54.65 Ridge, 650 ft. above 34.80 chs. point, bears N. and S.;
 descend.
 57.15 Point of triangulation; precipitous descent 650 ft. over
 ledges to
 80.14 The cor. of secs. 27, 28, 33, and 34.
 Land, rough and broken; general N. exposure and drainage.
 Soil, shallow sand, clay, and sandstone rock; 4th. rate.
 No timber.
 Undergrowth, shadscale, black brush and yellow top.

N.0°02'W., bet. secs. 27 and 28.

Ascend rugged SW. slope over broken land through short
 undergrowth. The line north strikes high sandstone
 ledges up which I cannot chain; therefore triangulate
 as follows:

Set flag "A" on line north,
 then measure base line
 S.89°58'W., 8.67 chs. From
 W. end of base flag "A"
 bears N.16°55'E.



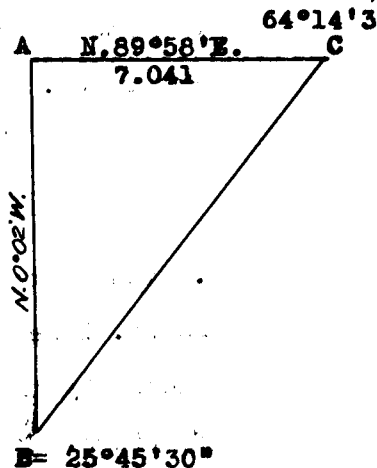
Chains

Distance by triangulation = 28.45 chs.

28.45 W. slope of spur at top of ledges, bears NW. and SE. thence along W. slope.

36.03 Point of spur, 450 ft. above sec. cor., projects NW. precipitous descent over ledges down which I cannot chain; triangulate as follows:

Set point "A" on line to the north and erect flag "B" at this point; then from "A" measure base line "AC", N. 89° 58' E., 7.041 chs. The angles subtended at "B" and "C" determined by repetition are



25° 45' 30" and 64° 14' 30" respectively.

Distance on line to "B"	= 36.03 chs.
Distance "AB" by triangulation	= 14.59 "
Distance on line to "A"	= 50.62 "
Distance by return measurement	10.82 "
	<u>39.80 "</u>

39.80 Foot of ledges, bears NW. and SE.; descend NE. slope.

39.94 Point for $\frac{1}{4}$ sec. cor. will fall on steep, sloping out-cropping where cor. cannot be perpetuated; therefore at this point,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

W C

828

827

1926

40.00 Point for $\frac{1}{4}$ sec. cor. on steep, sloping out-cropping.

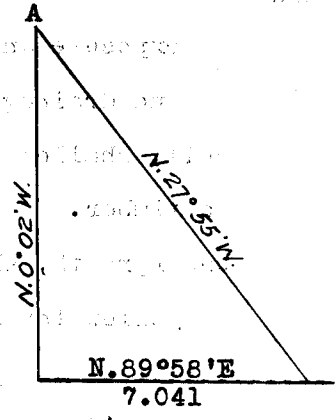
47.42 Trail, from Moab, Utah to Indian Creek, bears NW. and SE.

50.62 Point of triangulation; line north strikes an isolated butte, about 25 chs. long and 200 ft. high over which I cannot chain; therefore triangulate as follows:

SUBDIVISION OF T. 27 S., R. 20 E.

Chains

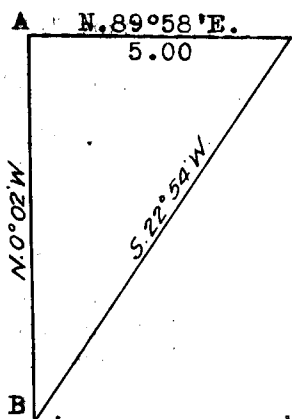
Set flag "A" on line to the north; then measure base line N. 89° 58' E., 7.041 chs. From E. end of base flag "A" bears N. 27° 55' W. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation = 13.31 chs.

Top of sandstone butte, 260 ft. above point of triangulation, bears NE. and SW.; precipitous descent over ledges down which I cannot chain, I therefore triangulate as follows:

Set point "A" on line to the north and erect flag "B" at this point; then from "A" measure base line N. 89° 58' E., 5.00 chs. distant. From E. end of base flag "B" bears S. 22° 54' W. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation = 11.82 chs.

Approximate distance to foot of ledges on N. side of butte, bears NE. and SW.; thence over bench.

Point of triangulation.

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for cor. of secs. 21, 22, 27, and 28, with brass cap marked

T27S	R20E
S21	S22
S28	S27
1926	

Land, rough bench broken by ledges and out croppings; SW.

SUBDIVISION OF T. 27 S. 1. E. 20 W.

contd.

Chains

exposure and drainage on S. 36 chs. and 1/2 exposure
and drainage on remainder of mile.

Soil, shallow sand and sandstone rock; 3rd. and 4th. rate

No timber.

Undergrowth, shadscale, black brush, mountain rush,
yellow top and grass.

S. 89°59'E., on a random line bet. secs. 22 and 27.

17.40

Precipitous descent over high ledges and break of canyon
impracticable to chain, triangulate as follows:

Set point "A" on line to

the east and erect flag

B S. 89°59'E
13°43'30"

"B" at this point; then

from "A" measure base

line "AC", S. 0°01'W., 6.08

chs. distant to point "C".

76°16'30" =

The angles subtended at "B" and "C" determined by

repetition are 13°43'30" and 76°16'30" respectively.

Distance line "BA" by triangulation

= 24.89 chs.

Distance on random line to "A"

= 42.29 "

Distance by return measurement

= 2.29 "

40.00

Set temp. 1/4 sec. cor.

42.29

Line east strikes high ledges and rim of canyon, I there
fore triangulate as follows:

Set flag "A" on line to the

E., then measure base line

S. 0°01'W., 6.08 chs. From

S. end of base flag "A"

bears N. 68°15'E.; all

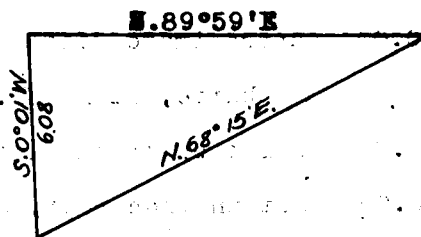
bearings taken by direct

reading of the solar and angles checked by deflection

Distance by triangulation = 15.23 chs.

57.52

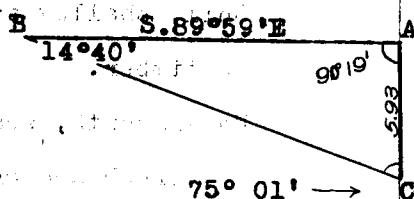
Point of triangulation; the line east descends high ledge
on E. side of spur; chaining is impracticable, therefore
triangulate as follows:



SUBDIVISION OF T.27 S., R.26 E.

Chains

Set point "A" on line to the E., and erect flag "B" at this point; then with the transit over "A" and the telescope directed to "B" deflect an angle of $90^{\circ} 19'$ to the left and measure base line, 5.93 chs. to "C". The angles subtended at "B" and "C" determined by repetition are $14^{\circ} 40'$ and $75^{\circ} 01'$ respectively.



Distance by triangulation = 22.62 chs.

Intersect N. and S. line 9 lks. N. of the cor. of secs. 22, 23, 26, and 27.

Thence

N. $89^{\circ} 55' W.$, on true line bet. secs. 22 and 27.

By triangulation; ascend precipitous slope of spur broken by high ledges.

Point of triangulation on sandstone spur, 275 ft. above sec. cor., projects NW.; thence over High ledges by triangulation to

W. point of triangulation, 350 ft. below spur.

Wash, 20 lks. wide, 2 ft. deep, drains NE. 2 chs. to head of canyon. Ascend.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ $\frac{S22}{S27}$
 1926

Point of triangulation on top of ledge and rim of canyon, 350 ft. above wash, bears NE. and SW.; ascend a broken E. slope.

Thence ascend gradually over SE. slope.

The cor. of secs. 21, 22, 27, and 28, 105 ft. above rim of canyon.

Land, rough bench broken by ledges and cut by deep canyons; general N. exposure and drainage.

Chains

Soil, shallow sand and sandstone rock, thin, blue.

No timber.

Undergrowth, scattered, shadescale, yellow, top, black

brush and grass.

N.0°02'W., bet. secs. 21 and 22.

Gradually ascend over SE. slope of broken bench land through short undergrowth.

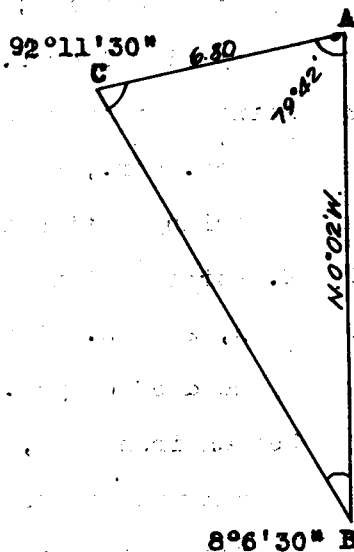
21.59 Set flag for future reference.

22.00 Rim, 10 ft. high, bears NW. and SE.; descend broken NE. slope.

28.09 Rim of canyon, bears NW and SE.

In order to determine distance to the north over high ledge rims of box canyon, I triangulate as follows:

Set flag "A" on line to the north and designate flag at 21.59 chs. "B". Then, with transit over "A" and the telescope directed to "B", deflect an angle of 79°42' to the right and measure base line 6.80 chs. to "C". Unable to secure longer base. The angles subtended at "B" and "C"



determined by repetition are 8°06'30" and 91°11'30" respectively.

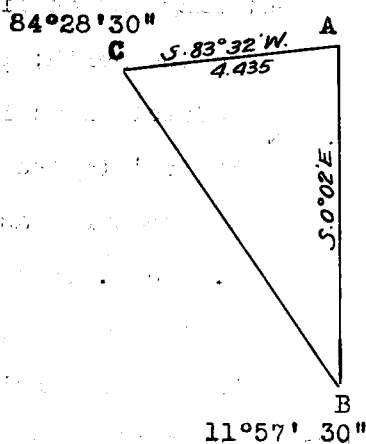
Distance by triangulation	= 48.18 chs.
Distance on line to "B"	= 21.59 "
Distance on line to "A"	= 69.77 "
Return measurement (direct)	= .93 "
	<u>68.84 "</u>

In order to establish the 1/4 sec. cor., I proceed from the 68.84 chs. which I designate "A" and triangulate to the south it being impracticable to chain on account of ledges.

SUBDIVISION OF T. 27 S., R. 20 E.

Chains

Set flag "B" on line to the south, then measure base line "AC", S. 83° 32' W., 4.435 chs. The angles subtended at "B" and "C" determined by repetition are 11° 57' 30" and 84° 28' 30" respectively.



Distance on line to "A"	= 68.84 chs.
Distance return measurement by triangulation	= $\frac{21.31}{47.53}$ "

47.53 To point of triangulation at base of sandstone spur projecting SE. The true point for $\frac{1}{4}$ sec. cor. bet. secs. 21 and 22 at 40.00 chs. falls on inaccessible ground and cannot be reached; therefore, at this point,

Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 18 ins. in a mound of stone for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$	
S21	S22
WC	
1926	

Deposit a sandstone, 9x8x6 ins., marked with a cross (X) on one face at base of monument.

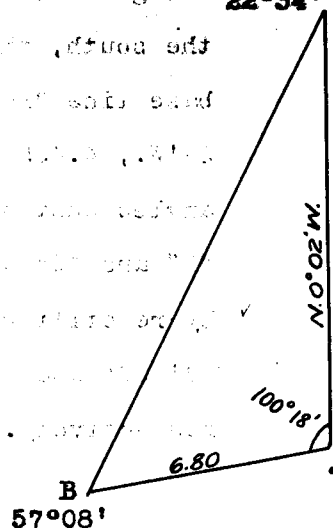
52.00 Approximate distance to bottom of box canyon drains E.

69.77 Point of triangulation on point of bench, projects NE. about 15 chs. In order to determine distance to the N. over a vertical ledge rim bearing E. and W., impracticable to chain, I triangulate as follows:

SUBDIVISION OF T.27 S., R.26 E.

Chains

Set flag "A" on line of north to "d" salt 22°34' to the north; then defelct an angle of 100°18' to the left and measure base line 6.80 chs. to "B". The angles subtended at "A" and "B" determined by repetition are 22°34' and 57°08' respectively.



Distance by triangulation	= 14.88 chs.
Total distance to "A", add	<u>69.77</u> "
	84.65 " ✓
Distance by return measurement	= <u>4.65</u> "
	80.00 "

75.00 Approximate distance to foot of ledges, 275 ft. below the 69.77 chs. point, bears E. and W.

80.00 On surface rock, mark a cross (X), over which, Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins in a mound of stone for cor. of secs. 15, 16, 21, and 22, with brass cap marked

T27S	R20E
S16	S15
S21	S22
1926	

Land, rough, broken bench; general N. exposure and drainage.

Soil, shallow sand, clay and rock of sandstone formation 4th. rate.

No timber.

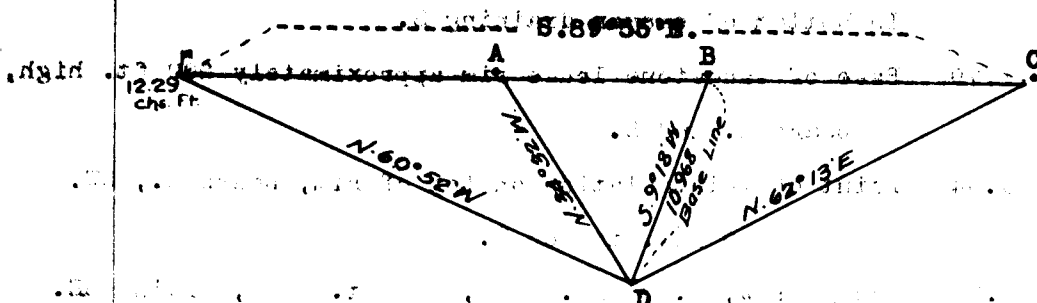
Undergrowth, shadscale, black brush, yellow top, mountain rush, and grass.

S.89°55'E., on a random line bet. secs. 15 and 22.

12.29 The line east passes over high ledges on breaks of the Colorado River Canyon, also across Colorado River I therefore triangulate as shown on the following diagram.

Chains

chain



All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation, 12.29 chs. point to "B" = 21.25 chs.

Distance line "AB" by triangulation = 9.23 "

Distance line "BC" by triangulation = 18.72 "

24.31 To point "A" of triangulation.

24.54 Set temp. meander cor. on left bank of the Colorado River.

33.54 To point "B" of triangulation.

33.71 Set temp. meander cor. on right bank of Colorado River.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

52.26 To point "C" of triangulation.

74.81 Line east descends high ledge rim of canyon down which I cannot chain; therefore triangulate as follows:

The cor. of secs. 14, 15, 22, and

23 is visible and bears

S. 89° 55' E. Designate this

sec. cor. "A" and erect

flag "B" at the 74.81 chs.

point. Then, from "A"

measure base line S. 0° 07' W.,

26.51 chs. to "C". The

line "CB", bears N. 11° 43' W.

All bearings taken by direct

reading of the solar and

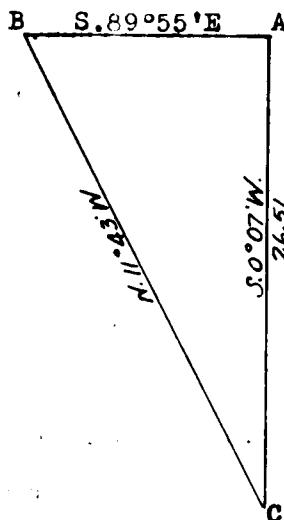
angles checked by deflection.

Distance by triangulation = 5.54 chs.

80.35 Intersect the cor. of secs. 14, 15, 22, and 23.

Thence

S. 89° 55' E., on true line bet. secs. 15 and 22.



SURVEYING LOG - 1926

Chains	
	In bottom of canyon draining S.
1.79	Base of sandstone ledge rim approximately 200 ft. high bears N. and S.
5.54	Point of triangulation on top of rim, bears N., SW. about 40 lks. thence W.
9.70	Rocky draw, 5.00 chs. wide, 100 ft. deep, drains SE.
14.35	Thence over broken bench of limestone formation.
28.09	Point of triangulation on top of high ledge and rim of Colorado River Canyon, bears N. and S.; descend over ledges to
36.35	Base of ledges, bears N. and S.; thence over bottom through dense undergrowth.
40.17½	Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for ¼ sec. cor., with brass cap marked
	S15
	¼
	S22
	1926
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
46.47	Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for witness cor. to the meander cor. of secs. 15 and 22 on the right bank of the Colorado River, with brass cap marked
	T27SR20E
	S15
	S22
	1926
	W C M C
	Deposit a cobblestone, 6x4x3 ins., marked with a cross (X) on one face at base of monument.
46.64	Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 15 and 22.
46.81	Point of triangulation.
55.81	Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 15 and 22.
56.01	Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in

... SUBDIVISION OF T.27 S., R.20 E.

Chains

the ground for witness cor. to the meander cor. of
secs. 15 and 22 on the left bank of the Colorado
River, with brass cap marked

T27SR20E

S15

W

C

M

C

S22

1926

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Thence by triangulation over high ledges and breaks of
canyon to

68.06 Point of triangulation on top of ledge and rim of
Colorado River Canyon, bears NW. and SE; thence over
level bench through dense short undergrowth.

74.05 Trail, bears NW. and SE.

74.20 Begin steep ascent over E. slope, bears NW. and SE.

78.50 Top of red sand stone spur, 165 ft. above rim, projects
N.; descend 30 ft. to

80.35 The cor. of secs. 15, 16, 21 and 22..

Land, rough broken benches cut by deep box canyons.

Soil, shallow sand and sandstone and limestone rock
on benches; alluvial and rocky in canyons; 1st to
4th. rates.

No. timber.

Undergrowth, short shadscale, black brush, mountain rush,
yellow top and grass on benches and dense willow and
iron brush along river.

N.0°02'W., bet. secs. 15 and 16.

The line north crosses an isolated sandstone butte, about
200 ft. high and 15 chs. long bearing N.6°W. and S.6°E.,
to pass which I run on offset and traverse lines as
follows:

East, 6.18 chs., then on offset line,

N.0°02'W., 20.93 chs. End of course on top of ledge and
rim of Colorado River Canyon, bears
N.20°W. and SE.

Thence on traverse line,

Chains

anlad

N. $36^{\circ}00'W.$, 5.54 chs.,
S. $74^{\circ}30'W.$, 3.03 chs.,
South, .15 chs. to true line at 24.45 chains

24.40 Trail, bears E. and W. at N. point of isolated sandstone butte.

24.45 Top of ledge and rim of Colorado River Canyon, bears E. and W.; precipitous descent over ledges down which

I cannot chain; therefore, I triangulate as follows:

Set point "A" on line:

to the north and erect

flag "B" at this point;

then, with the transit

over "A" and the telescope directed to "B".

deflect an angle of

$121^{\circ}59'50''$ to the left

and measure base line

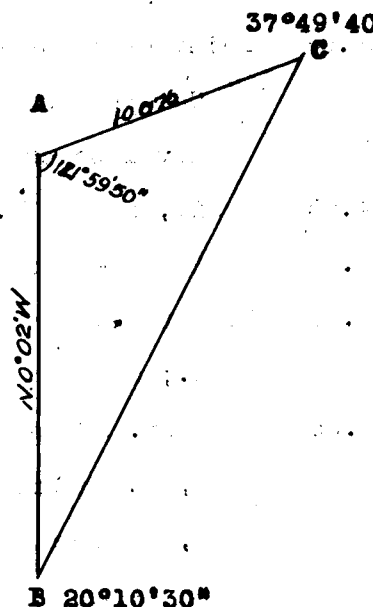
10.076 chs. to point

"C". The angles subtended

at "B" and "C" determined

by repetition are $20^{\circ}10'30''$

and $37^{\circ}49'40''$ respectively.



Distance on line to "B"

= 24.45 chs.

Distance "BA" by triangulation

= 17.82 "

42.27 "

Distance by return measurement

= 2.27 "

40.00 "

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S16 | S15

1926

Deposit a limestone, $10 \times 10 \times 4$ ins., marked with a cross (X) on one face at base of monument.

40.82 Intersect mean high water mark on the left bank of the

Colorado River on the line ...

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.

... will save ...

SUBDIVISION OF T.27 S., R.20 E.

Chains

in the ground for meander cor. of secs. 15 and 16 on the left bank of the Colorado River, with brass cap marked

M C	
S16 T27S	S15 R20E

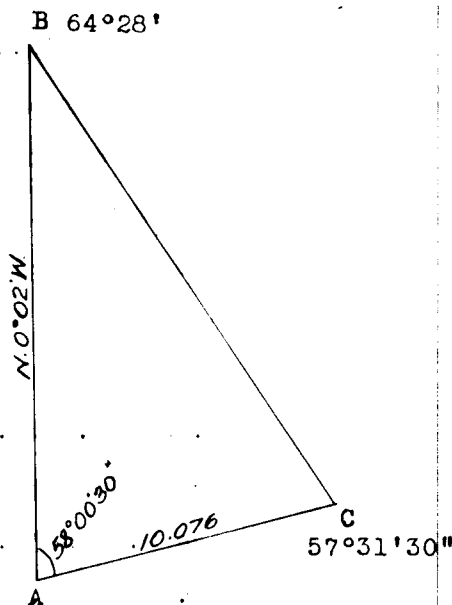
1926

Raise a mound of stone, 2 ft. base and 1½ ft. high south of the post.

- 42.27 Point of triangulation on sandbar in Colorado River; thence by triangulation across river as follows:

Designate this point "A"

and set flag "B" on line to the north; then deflect an angle of 58°00'30" to the right and measure base line "AC", 10.076 chs. distant. The angles subtended at "B" and "C" determined by repetition are 64°28' and 57°31'30" respectively.



Distance on line to "A"	= 42.27 chs.
Distance "AB" by triangulation	= 9.42 "
Distance on line to "B"	= 51.69 "
Distance by return measurement	= .36 "

- 51.33 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 15 and 16.

- 51.69 Set an iron post, 3 ft. long and 1 inch in diameter, 30 inches in the ground, for the witness meander corner for secs. 15 and 16; with a brass cap marked:

SUBDIVISION OF T.27 S., R.20 E.

Chains

T27S	R20E
S16	S15

WCMC

1926

from which

E. face of red sandstone W. rim of a small canyon, marked X B0 S16, about 8 ft. above ground level, bears N.89°18'W., 262 chs. distant.

Capstone of red sandstone projecting SE,, tangent to S. edge, on top of low rim on E. side of canyon noted above, bears N.81° 12'E., about 3.50 chs. distant.

The line north ascends high ledge break of river over which I cannot chain; therefore triangulate as follows:

Set flag "A" on line

to the north and designate flag at

24.45 chs. "B". Then

from "A" measure base

line S.89°58'W., 6.583

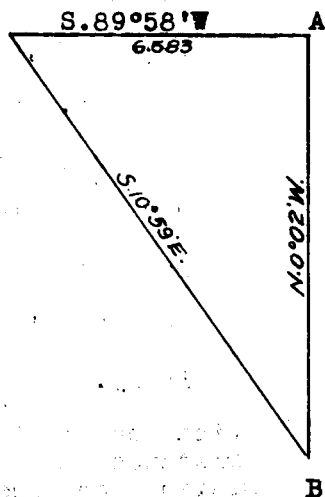
chs. distant. From W.

end of base bears S.

10°59'E. All bearings

taken by direct reading

of the solar and angles checked by deflection. Distance by triangulation : 34.03 chs. (Approx. dist.) Wash from NW. drains SE.



53.50

58.48

Top of ledge and N. rim of Colorado River Canyon, bears NW and SE.

The line N. strikes W. face of high sandstone ledges over which I cannot chain; to pass which I offset as follows:

West, 1.00 chs., then on offset line

N.0°02'W., 21.52 chs. At 9.50 chs. telephone line bears NE. and SW.

East, 1.00 chs. to true line, on which, at

12.80

Set an iron post, 3 ft. long, 2 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for cor. of secs. 9, 10, 15, and 16, with brass cap marked.

T27S	R20E
S9	S10
S16	S15
1926	

from which

A sandstone boulder, 6 x 5 x 10 ft., marked

T27SR20E S10 X B0, bears N. 24° 45' E., 1.62 chs. distant.

Cor. stands on S. rim of a small box canyon, bears N 15° E and S 15° W.

Land, high, broken benches cut by deep canyons; general N. and S. exposure and drainage to the Colorado River. Soil, shallow sand, clay, sandstone and limestone rock; 2nd. to 4th. rates.

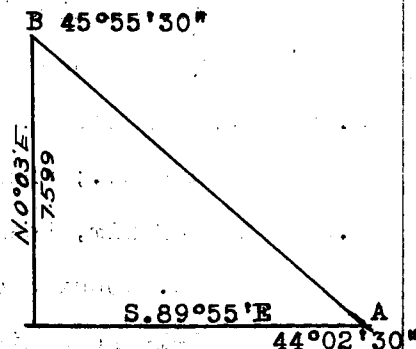
No timber.

Undergrowth, shadscale, black brush, yellow top and grass with willow along Colorado River.

S. 89° 55' E., on a random line bet. secs. 10 and 15.

The line east ascends a high spur rimmed with ledges up which I cannot chain; therefore triangulate as follows:

Set flag "A" on line to the east; then, measure base line N. 0° 03' E., 7.599 chs. to "B". The angles subtended at "A" and "B" determined by repetition are 44° 02' 30" and 45° 55' 30" respectively.



Distance by triangulation = 7.85 chs.

12.81 Top of rim and precipitous descent over ledges down which

Chains

series

chaining is impracticable; I therefore triangulate as follows:

Set flag "A" on line to the

east and flag "B" at

12.81 chs. point on random

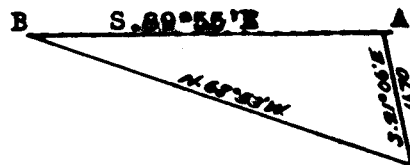
line; then, from "A"

measure base line "AC",

S.21°06'E., 11.70 chs.

The line "CB" bears N.68°53'W. All bearings taken by

direct reading of the solar and angles checked by deflection.



Distance by triangulation = 24.14 chs.

41.00 Set temp. $\frac{1}{4}$ sec. cor.

40.32 Intersect N. and S. line 9 lks. N. of the cor. of secs. 10, 11, 14, and 15.

Thence

N.89°51'W., on true line bet. secs. 10 and 15.

Gradually ascend over broken bench land through short undergrowth.

40.16 Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ $\frac{S10}{S15}$
 1926

Deposit a limestone, 12x12x4 ins., marked with a cross (X) on one face at base of monument.

43.37 Base of steep ascent over high sandstone rim, bears NE. and SW.; thence by triangulation.

45.02 Top of rim, bears N.40°E. about 10 chs. thence N., and SW. about 3 chs. thence S. to Colorado River. Telephone line, bears N.40°E. and S.40°W.

47.51 Point of triangulation.

72.47 Top of ledge rim, bears N.10°E. and S.10°W.; thence by triangulation over precipitous W. slope.

74.35 Base of ledges, bears N.10°E. and S.10°W.

SUBDIVISION OF T.27 S., R.20 E.

Chains	
80.32	The cor. of secs. 9, 10, 15, and 16, 400 ft. below rim. Land, rolling and rough, broken bench; general S. exposure and drainage. Soil, shallow sand, clay and rock of sandstone and lime- stone formation; 2nd. and 4th. rates. No timber. Undergrowth, shadscale, black brush, mountain rush, yellow top and grass.
	N.0°02'W., bet. secs. 9 and 10. Over rolling and broken bench land through short under- growth. Descend.
10.00	Draw, drains SW.
13.30	Trail, bears NE. and SW.
22.90	Same trail, bears NW. and SE.
24.75	Same draw, and wash, 60 lks. wide, 5 ft. deep, drains SE.
38.40	Top of ledge rim, about 100 ft. high, bears SE. and SW.; gradually descend gentle N. slope.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in the ground over a cross (X) cut in solid rock and 26 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked
	<div style="text-align: center;"> $\frac{1}{4}$ S9 S10 1927 </div>
50.00	Trail, bears E. and W.
51.30	Bottom of draw and wash, 40 lks. wide, 4 ft. deep, drains W.
52.00	Bottom of draw and wash, 30 lks. wide, 3 ft. deep, drains SW.; gradually ascend.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 24 ins. in a mound of stone for cor. of secs. 3, 4, 9, and 10, with brass cap marked

SUBDIVISION OF T. 27 S. 11 E. 7 E.

Chains

T27S R20E

S4 E3

S9 S10

1927

Deposit a sandstone, 7x5x4 ins., marked with a cross (2)
on one face at base of monument.

Land, rolling and broken bench; general S. exposure and
drainage.

Soil, shallow sand and sandstone rock; 2nd. to 4th. rat

No timber.

Undergrowth, shadscale, black brush, mountain rush and
grass.

S.89°51'E., on a random line bet. secs. 3 and 10.

The line ascends high spur rimmed with ledges up which
it is impracticable to chain; therefore, I triangul
as follows:

Set flag "A" on random

line to the east;

then measure base

line, S.0°07'W., 41.57

chs. From S. end of

base flag "A" bears

N.35°07'E. All bear-

ings taken by direct

reading of the solar

and angles checked by deflection.

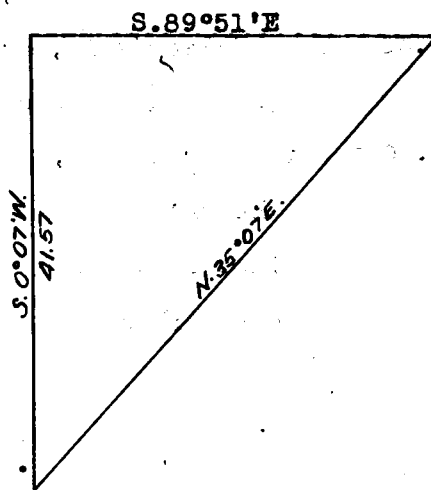
Distance by triangulation = 29.10 chs.

29.10

Line east from this point descends over a series of
high ledges on E. slope of spur, I therefore tri-
angulate as follows:

Set flag "A" on random line to the east and erect flag

flag "B" at this point. Then from "A" measure base



SUBDIVISION OF T.27 S., R.20 E.

Chains

line "AC", S.0°08'W.,

80.20 chs. distant.

The line "CB" bears

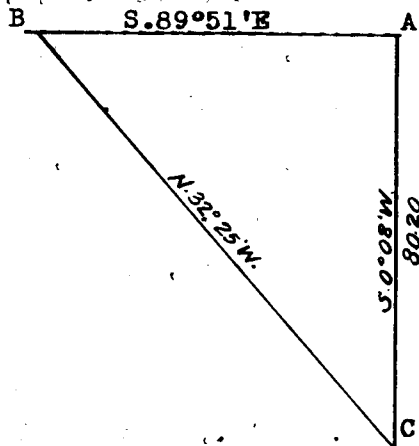
N.32°25'W. All bear-

ings taken by direct

reading of the solar

and angles checked by

deflection.



Distance on line to "B"

= 29.10 chs.

Distance "BA" by triangulation

= 51.20 "

Distance to "A"

= 80.30 "

Distance by return measurement

= 40.30 "

40.00

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.24 Intersect N. and S. line 2 lks. S. of the cor. of secs.
2,3,10, and 11.

Thence

N.89°52'W., on true line bet. secs. 3 and 10.

Over rolling bench land through short undergrowth.

36.27 Leave bench and begin ascent over a series of sandstone
ledges bearing N. and S.

40.12. On surface rock, mark a cross (X), over which
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap
marked

S3

$\frac{1}{4}$

S10

1927

40.40 Base of sandstone ledge, bears N. and S.; thence by
triangulation to

51.14 To point of triangulation on top of spur, projects S.
Precipitous descent over ledges on W. slope of spur;
thence by triangulation with approximate topography
as follows:

58.00 Base of ledges and spur, bears north and south

61.50 Draw, drains S.

70.80 Draw, drains S.

SURVEILANCE FOR T.26 S., R.20 E.

Chains

80.24

The cor. of secs. 3, 4, 9, and 10.
Land, rolling and rough broken bench; general S. exposure and drainage.
Soil, shallow sand, clay and sandstone rock; 4th. rate.
No timber.
Undergrowth, shadscale, black brush, mountain rush, yellow top and grass.

N.0°02'W., on true line bet. secs. 3 and 4.

Gradually ascend over rolling bench land through short undergrowth.

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
S4 | S3

1927

53.40

Spur, 115 ft. above $\frac{1}{4}$ sec. cor., projects E.; gradually descend.

79.60

Bottom of draw, 100 ch. wide, 30 ft. deep; drains SE.

81.50

Wash, 30 lks. wide, 3 ft. deep, in draw; drains SE.

87.14

Intersect N. bdy. of the Tp., 6.79 chs. east of the $\frac{1}{4}$ sec. cor. S. bdy. sec. 33, T.26 S., R.20 E., which is an iron post, 1 in. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T.26 S., R.20 E.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for the closing cor. of secs. 3 and 4, with brass cap marked

T26SR20E
S33

S4 | S3
T27S | R20E
CC
1927

SUBDIVISION OF T.27 S., R.20 E.

Chains

Land, rolling and broken bench; general S. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

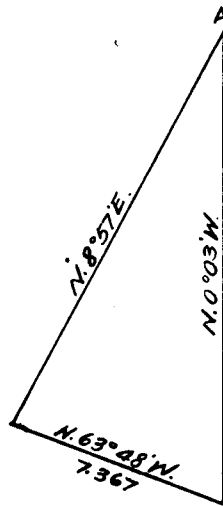
Undergrowth, shadscale, black brush, mountain rush and grass.

From the cor. of secs. 4, 5, 32, and 33 on the S. bdy. of the Tp. which is an iron post, 2 ins. in dia., firmly set, and marked and witnessed as described in the field notes of the survey of T.28 S., R.20 E., book "B" this group.

N.0°03'W., bet. secs. 32 and 33.

The line north cross box canyons the vertical walls of which make chaining impracticable, I therefore triangulate as follows:

Set flag "A" on line to the north; then measure base line N.63°48'W., 7.367 chs. distant. From W. end of base flag "A" bears N.8°57'E. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation	= 44.98 chs.
Distance by return measurement	= $\frac{1.84}{43.14}$ "

The approximate topography from the sec. cor. to N. point of triangulation is:

- .50 Top of ledge and rim of canyon, bears NW. and SE.
- 8.00 Wash, 30 lks. wide, 10 ft. deep, in canyon 300 ft. deep, drains NW.
- 23.00 Spur, 200 ft. high, projects NW. about 5 chs. distant.

SUBDIVISION OF T. 27 N., R. 20 E.

Chains

- 35.00 Wash, 40 lks. wide, 2 ft. deep, in canyon, Arains W.; trail from Moab, Utah to Indian Creek, in wash, bears E. and W.
- 40.00 Point for $\frac{1}{4}$ sec. cor. falls on inaccessible ledges where cor. cannot be set.
- 43.10 Top of ledge and N. rim of canyon. about 300 ft. above wash, bears E. and W.
- 43.14 On surface rock, mark a cross (X), over which Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone for witness cor. to the $\frac{1}{4}$ sec. cor. with brass cap marked

$\frac{1}{4}$
 832 | 833
 WC
 1926

- 44.98 Point of triangulation; thence over broken S. slope.
- 50.71 Ridge, bears E. and W.; line north crosses a short box canyon the vertical walls of which make chaining impracticable; I therefore triangulate as follows:

Set flag "A" on line to

the N. and erect flag

"B" at this point;

then with the transit over "A" and the telescope directed to "B"

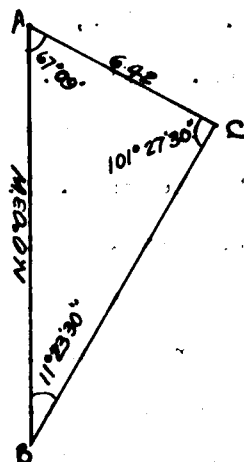
deflect an angle of

$67^{\circ}09'$ to the left and

measure base line 6.42

chs. distant to point

"C". The angles subtended at "B" and "C" determined by repetition are $11^{\circ}23'30''$ and $101^{\circ}27'30''$ respectively.



Distance by triangulation	= 31.86 chs.
Total distance to "A", add 50.71 chs.	<u>82.57</u>
Distance by return measurement	<u>80.00</u>

The approximate topography between the triangulation

SUBDIVISION OF T27 S. R20 E.

Chains

points is:

342

55.00 Top of ledge about 250 ft. high and S. rim of box canyon,
bears E. and W.

(X) 62.00 Wash, in bottom of canyon, drains W.

70.00 Top of ledge about 250 ft. high and N. rim of canyon,
bears E. and W.; thence over nearly level bench.

80.00 On surface rock, mark a cross (X), over which
Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in
a mound of stone for cor. of secs. 28, 29, 32, and 33,
with brass cap marked

T27S	R20E
S29	S28

S32	S33
1926	

Land, rough bench, broken by ledges and cut with deep
box canyons; general W. exposure and drainage.

Soil, shallow sand, clay and rocky of sandstone formation;
3rd. and 4th. rates.

No timber.

Undergrowth, scattered shadscale, black brush, mountain
rush, and grass.

S. 89°55'E., on a random line bet. secs. 28 and 33.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect the cor. of secs. 27, 28, 33, and 34.

Thence

N. 89°55'W., on true line bet. secs. 28 and 33.

Gradually descend over rolling and broken bench land
through short undergrowth.

8.55 Wash, 25 lks. wide, 3 ft. deep, drains SW.; gradually
ascend.

22.00 Low ridge, bears NE. and SW.; gradually descend.

31.15 Wash, 20 lks. wide, 3 ft. deep, drains SW.; gradually
ascend.

40.02 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the
ground on solid rock and 24 ins. in a mound of stone
for $\frac{1}{4}$ sec. cor., with brass cap marked

SUBDIVISION OF T-27-32-33-34-35

Chains

S28

not at all

1926

Deposit a sandstone, 4x4x4 ins., marked with a cross (X) on one face at base of monument.

50.30 Low ridge, bears N. and S.; descend.

53.00 Ledge, 8 ft. high, bears NE. and SW.

57.55 Trail, from Moab, Utah to Indian Creek, bears NE. and S.

80.04 The cor. of secs. 28, 29, 32, and 33.

Land, rolling and broken bench; general SW. exposure and drainage.

Soil, shallow sand and sandstone rock; 3rd. and 4th. rat

No timber.

Undergrowth, Black brush, mountain rush, yellow top and grass.

N.0°03'W., bet. secs. 28 and 29.

Over rough, broken bench land through short undergrowth

2.89 Top of high ledge and rim of Colorado River Canyon, bears NE. and SW.; precipitous descent over high

ledges down which I cannot chain; therefore triangulate as follows:

Set flags "A" and "B" on line

to the north and erect flag "C" at this point.

Then from "B" measure base line "BD", N.33°59'

E., 15.00 chs. From "D"

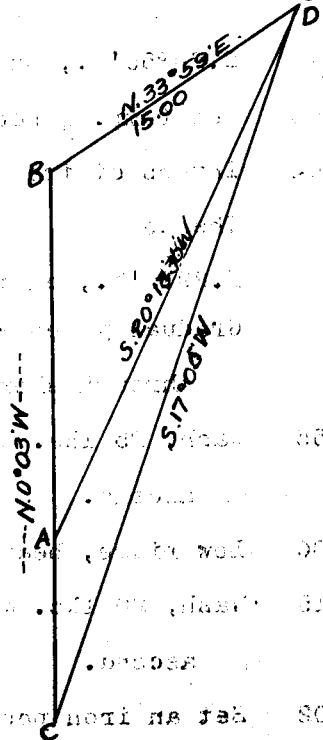
flag "A" bears S.20°13'30"W

and "C" bears S.17°08'W.

All bearings taken by direct

reading of the solar and

angles checked by deflection.



. SURVEY OF T.27 S., R.20 E.

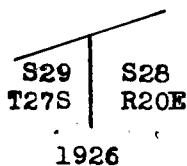
Chains

Distance line "CB" by triangulation	= 14.80 chs.
Distance line "BA" by triangulation	= <u>10.29</u> "
Distance line "CA"	= <u>4.51</u> "

7.40 Counting from sec. cor. to point "A"

Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in the ground for witness cor. to the meander cor. of secs. 28 and 29 on the left bank of the Colorado River, with brass cap marked

WCMC



from which

A sandstone boulder, 20x7x6 ft., marked S28 X B0, bears S.80°15'E., 21 lks. distant.

Other accessories to cor. impracticable.

7.50 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 28 and 29.

17.69 Point "B" of triangulation.

18.21 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 28 and 29.

18.82 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 28 and 29 on the right bank of the Colorado River, with brass cap marked

T27S	R20E
S29	S28

WMC

1926

Deposit a sandstone rock, 7 x 5 x 3 ins, marked with a cross (x) at the base of the monument

Thence along bottom lands of the Colorado River through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for 1/4 sec. cor., with brass cap marked

SECTION 28 AND 29, T. 27 S., R. 20 E., S. 100.

Chains

... "E3" and ...
 ... "A3" and ...
 ... "A3" and ...

S29 S28

1926

from which

Sandstone ledge, marked $\frac{1}{2}$ X B0, bears S.55°21' W., 130 lks. distant

Deposit a sandstone, 8x6x2 ins., marked with a cross (X) on one face at base of monument.

Continue over bottom lands.

- 51.44 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of sec 28 and 29 on the right bank of the Colorado River, with brass cap marked

WCMC

S29 S28
T27S R20E

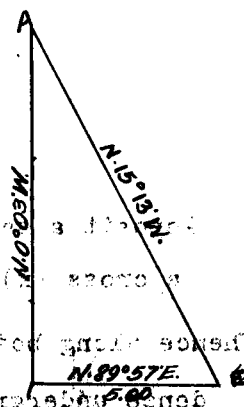
1926

Deposit a sandstone, 6x8x3 ins., marked with a cross (X) on one face at base of monument; also
 A sandstone ledge, marked S 29 X B0, bears S.60°40'W., 193 lks. distant.

- 53.23 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 28 and 29.

To determine distance across river I triangulate as follows:

Set flag "A" on line to the north; then measure base line N.89°57'E., 5.00 chs. distant. From E. end of base flag "A" bears N.15°13'W.. All bearings taken by direct reading of the solar and angles checked by deflection.



SUBDIVISION OF T 27S, R 20 E.

chains

Distance by triangulation - 18.45 chains, which added to 53.23 chains gives

71.68 To point A.

71.89 Intersect mean high water on the left bank of the Colorado River and the true point for the meander corner of sections 28 and 29.

72.46 Set an iron post, 3 ft. long and 1 in. in dia., 30 ins. in the ground for the witness corner to the meander corner of sections 28 and 29 on the left bank of the Colorado River, with brass cap marked:

T27SR20E
S29 | S28
WMC
1926

from which,

The west face of a sandstone ledge, 5 ft. above ground, marked WMCS28XB0, bears N 40°50' E, 79½ links, also

A sandstone boulder, 12 x 12 x 8 ft. marked, WMCS29B0, near the top of the SW face, bears N 33°30' W, 166 links

The line to the north passes over a vertical ledge about 200 ft. high, over which chaining is impracticable: Set flag A on top of the ledge and return to the 52.23 chain point, designated as B and survey a base line BC, N 89°57' E, 5000 chains

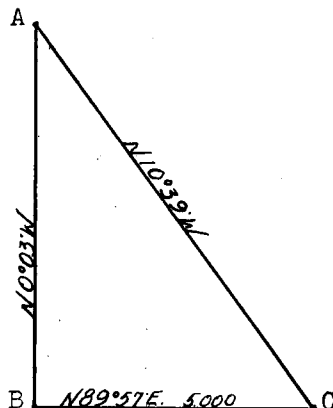
From C flag A bears

N 10°39'00" W. All angles checked by repetition.

Dist. by Triangulation 26.72

Dist. on line 53.23

Distance to point A 79.95



9.95 Triangulation point on top of grey limestone ledge, 200 ft. above the river, thence along a rocky S slope to.

SUBDIVISION OF T 27S, R 20 E.

Chains
80.00

On a gentle rocky S slope.
Set an iron post, 3 ft. long and 2 ins. in dia. 30 in
in a mound of stone, over a cross X, cut in solid r
for the corner of sections 20, 21 28 and 29, with a
brass cap marked:

T27SR20E	
S20	S21
S29	S28
1926	

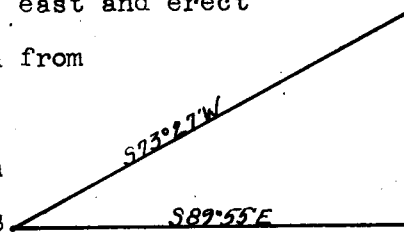
Land, river bottom, along the Colorado River,
Soil, deep clay in the higher parts and sand along th
river.

Timber, willow.

Undergrowth, sagebrush, iron brush and squaw brush.

Drainage, south.

S 89°55' E, on a random line bet. secs. 21 and 28.
The line east strikes high ledges which make chaining
impracticable; therefore I triangulate as follows:
Set point A on line to the east and erect
flag B at this point, then from
A measure a baseline AC
N 0°05' E, 5.000 chs, From
C the flag at B bears B
S 73°27' W, all bearings taken by direct reading o
the solar and angles checked by deflection.



Distance by triangulation 16.74

40.00 Set a temp. $\frac{1}{4}$ sec. cor.
79.98 Intersect the N and S line 5 links S of the corner o
sections 21. 22, 27 and 28 Thence,
N 89°57' W on true line bet. secs. 21 and 28.
Lesc. over rough, broken bench land, through short
undergrowth.
30.50 Top of 80 ft. ledge, bears NE and SW, desc. abruptly
38.80 Wash, 30 lks. wide and 3 ft. deep, 300 ft. below sec
cor., drains SW, asc. over surface rock.

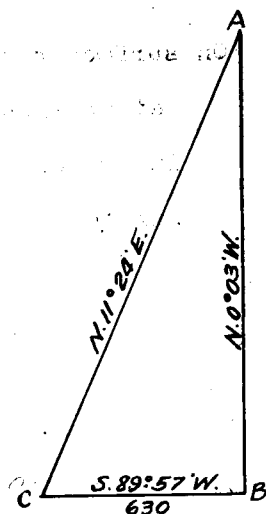
SUBDIVISION OF T.27 S., R.20 E.

Chains	
39.99	<p>On surface rock, mark a cross (X), over which</p> <p>Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked</p> <div style="text-align: center;"> $\frac{1}{4}$ <div style="display: inline-block; vertical-align: middle; text-align: center;"> <hr style="width: 50px; border: 0.5px solid black;"/> <p>S21</p> </div> </div> <div style="text-align: center; margin-top: 10px;"> <p>S28 1926</p> </div>
42.00	<p>Top of solid sandstone spur, 65 ft. above wash, projects SW.; thence over SW. slope.</p>
54.60	<p>Wash, 20 lks. wide, 3 ft. deep, drains S. about 3 chs. to head of box canyon draining W.; ascend E. slope.</p>
63.24	<p>To point of triangulation on top of high ledge rim of canyon, bears NW. and SE.; thence by triangulation to</p>
79.98	<p>The cor. of secs. 20, 21, 28, and 29.</p> <p>Land, rough bench broken by ledges and cut by deep box canyons; general SW. exposure and drainage.</p> <p>Soil, shallow sand and sandstone rock; 3rd. and 4th. rates.</p> <p>No timber.</p> <p>Undergrowth, shadscale, black brush and grass.</p>
	<div style="text-align: center; margin-bottom: 10px;"> <hr style="width: 100px; border: 0.5px solid black;"/> </div> <p>N.0°03'W., bet. secs. 20 and 21.</p> <p>Gradually ascend over broken bench land through short undergrowth.</p>
18.00	<p>Set flag for future reference.</p>
40.00	<p>On surface rock, mark a cross (X), over which,</p> <p>Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked</p> <div style="text-align: center; margin-top: 20px;"> $\frac{1}{4}$ <div style="display: inline-block; vertical-align: middle; text-align: center;"> <hr style="width: 50px; border: 0.5px solid black;"/> <p>S20 | S21</p> </div> </div> <div style="text-align: center; margin-top: 10px;"> <p>1926</p> </div>
41.00	<p>Foot of vertical sandstone ledges up which it is impracticable to chain, I therefore triangulate as follows:</p>

SUBDIVISION OF T.27 S., R.20 E.

Chains

Set flag "A" on line to the north and return to my flag at 18.00 chs. which I designate "B". Measure base line "BC" S.89°57'W., 6.30 chs. The line "CA" bears N.11°24'E. All bearings taken by direct reading of the solar and angles checked by deflection.

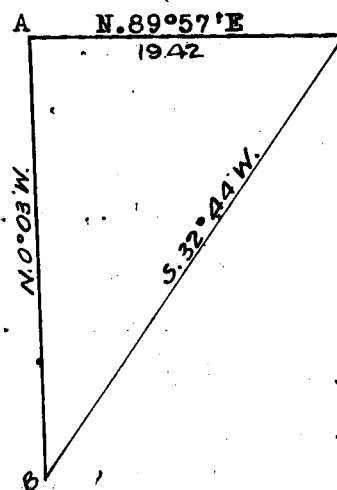


Distance by triangulation = 31.11 chs.

49.11 Point of triangulation on top of sandstone ridge about 30 ft. wide, 450 ft. above sec. cor., bears E. and W.

49.81 The line north strikes high ledge rims impracticable to chain, I therefore triangulate as follows:

Set point "A" on line north and erect flag "B" at this point; then from "A" measure base line N.89°57'E., 19.42 chs. From E. end of base flag "B" bears S.32°44'W. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation = 30.15 chs.

79.96 To N. point of triangulation.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 8 ins. in the ground over a cross (X) cut in solid rock and 2 ins. in a mound of stone for cor. of secs. 16, 17, 20 and 21, with brass cap marked

SUBDIVISION OF T.27 S., R.20 E.

Chains

T27S	R20E.
S17	S16
S20	S21
1926	

Land, rolling and rough bench broken by ledges; general W. exposure and drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Undergrowth, shadscale, black brush, mountain rush and grass.

S.89°57'E., on a random line bet. secs. 16 and 21.

Set temp. $\frac{1}{4}$ sec. cor.

Intersect N. and S. line 2 lks. S. of the cor. of secs. 15, 16, 21, and 22.

Thence

N.89°58'W., on true line bet. secs. 16 and 21.

Gradually ascend over bench land through short undergrowth.

Low ridge, bears NE. and SW.; gradually descend NW. slope.

Wash, 20 lks. wide, 2 ft. deep, 75 ft. below ridge, drains SW.; gradually ascend.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S16
$\frac{1}{4}$
S21
1927

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Rim, bears NW. and SW.; descend.

Top of ledge and E. rim of the Colorado River Canyon, bears N., S. about 15 chs. then W.; descend abruptly 250 ft. to

The cor. of secs. 16, 17, 20, and 21.

Land, rolling bench and rough breaks.

Soil, shallow sand and sandstone rock; 3rd. and 4th. rates.

No timber.

Undergrowth, shadscale, black brush, mountain rush, yellow

SURVEY OF THE COLORADO RIVER

Chains

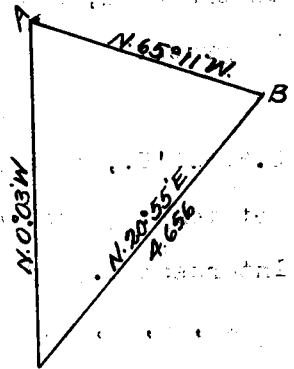
top and grass. NO. 1

N.0°03'W., bet. secs. 16 and 17.

Over rough broken land in breaks of the Colorado River Canyon through short undergrowth.

- 1.57 Top of lower rim of Colorado River Canyon, bears NE. and SW.; to determine distance ahead on line I triangulate as follows:

Set flag "A" in bottom of canyon and on line to the N.; then from cor. of secs. 16, 17, 20, and 21, measure base line N.20° 55'E., 4.656 chs. to Point "B". The line "BA"



bears N.65°11'W.. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 5.12 chs.

- 5.12 Set an iron post, 3 ft. long and 1 in. in dia., 30 ins in the ground, for the witness meander cor. for sec 16 and 17 on the left bank of the Colorado River, with a brass cap marked:

VCME

S17	S16
T278	R20E

1926

Deposit a sandstone rock, 6 x 5 x 4 ins., mkd. with a cross (x) at the base of the post.

- 5.97 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 16 and 17.

To determine distance across river I proceed as follows:

Return to a point 'A' S0°03' E .06 chs from the cor. of secs. 16, 17, 20 and 21. Set flag 'B' on line N 0° 0' W, on the right bank of the Colorado river and from

'A' survey a base 'AC' N 42° 35' 00" E 6.442 chains.

SUBDIVISION OF T. 27 S. R. 20 E.

Chains

From 'C' flag 'B' bears N 13°07' W

Angle 124°20'; Angle B = 13°04'

All angles checked by repetition. Distance by

triangulation 23 53

- .06

23.47

23.47 Triangulation point on the right bank of the Colorado River; thence by return measurement to,

23.12 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 16 and 17.

23.47 Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground to solid rock and in a mound of stone for the witness meander cor. of secs. 16 and 17, with a brass cap marked:

T27S	R20E
S17	S16

WCMC
1926

Deposit a limestone rock, 5 x 4 x 3 ins. marked with a cross (x) at the base of the post.

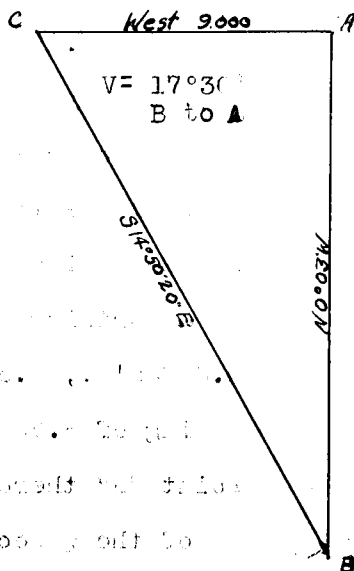
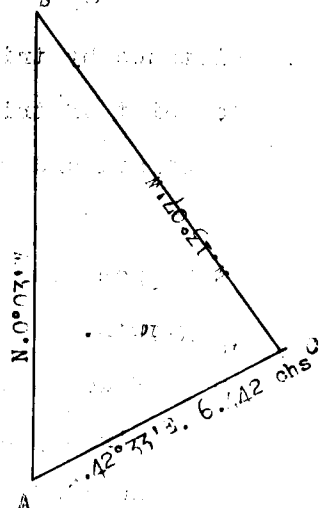
The line north ascends high ledges and rims of the Colorado River Canyon up which I cannot chain; therefore I triangulate as follows:

Set flag "A" on line to the north and designate the cor. of secs. 16, 17, 20 and 21 "B". Then, from "A" measure base line West, 9.00 chs. distant.

From W. end of base "B"

bears S. 14°50'20" E. All

bearings taken by direct



Chains

reading of the solar and angles checked by deflection

Distance by triangulation = 34.08 chs.

34.08

To point of triangulation on top of upper limestone strata and rim of the Colorado River Canyon, bears NE and SW.

Thence over rolling bench land through short under growth.

40.00

On surface rock, mark a cross (X), over which,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. 1. a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
 S17 | S16
 1926

Deposit a limestone, 10x8x6 ins., marked with a cross

(X) on one face at base of monument.

42.50
43.10

Trail, brs SW and NE, Goat springs to No. 2 Well/
Base of an inaccessible sandstone butte, bears NE.

and SW; to pass butte I proceed as follows:

Return to the $\frac{1}{4}$ sec. cor., thence on traverse line,

N.66°45'E., 9.50 chs. At end of course a flag designa

"A" and situated on top of high rim bears N.17°30'E.

Designate the 9.50 chs.

point "B"; then measure

base line "BC", N.66°45'E.,

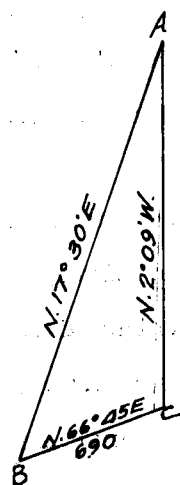
6.90 chs. The line "CA"

bears N.2°09'W. All bearings

taken by direct reading of

the solar and angles checked

by deflection.



Distance line "BA" by triangulation = 19.14 chs. or

a northing of 18.25 chs. and easting of 5.75 chs.

N.66°45'E., 9.50 chs. = northing of 3.75 chs. and easting of 8.73 chs.

Point "A" therefore is 22.00 chs. N. and 14.48 chs. E.

of the $\frac{1}{4}$ sec. cor. bet. sects. 16 and 17.

SUBDIVISION OF T.27 N. R.20 E.

Chains

I now offset

West, 14.50 chs. At 7.45 chs. edge of rim about 150 ft. high, bears N. and S.

62.00 On true line bet. secs. 16 and 17. Continue over broken bench; descending.

80.00 In bottom of small canyon; drains SW.

Set an iron pest, 3 ft. long, 2 ins. in dia., 4 ins. in the ground over a cross (X) cut in solid rock and 26 ins. in a mound of stone for cor. of secs. 8,9,16, and 17, with brass cap marked

T27S	R20E
S8	S9

S17 S16
1926

Land, rough broken bench and precipitous breaks of canyon and outcroppings; general SW. drainage.

Soil, shallow sand, alluvial, and rocky of sandstone and limestone formation; 2nd. to 4th. rates.

No timber.

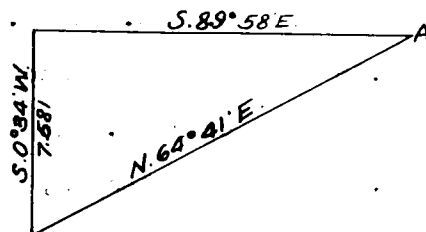
Undergrowth, shadscale, black brush, mountain rush, yellow top and grass, with dense willow along river.

S.89°58'E., on a random line bet. secs. 9 and 16.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

63.89 Precipitous descent over high ledges and across canyon over which it is impracticable to chain; I therefore triangulate as follows:

Set flag "A" on line to the east, then measure base line S.0°34'W., 7.581 chs. distant. From S. end of base flag "A" bears N.64°41'E. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation = 15.93 chs.

Chains

- 79.82 Intersect N. and S. line 19 lks S. of the cor. of
secs. 9, 10, 15, and 16.
- Thence
S. 89° 54' W., on true line bet. secs. 9 and 16.
- By triangulation across canyon broken by high ledges.
- 3.70 Approximate distance to bottom of canyon, drains SW.
- 7.00 Approximate distance to trail, bears NE. and SW.
- 15.93 Point of triangulation on top of ledge and rim of canyon
400 ft. above sec. cor., bears N. 20° E. and S.;
gradually descend over broken bench through short
undergrowth.
- 36.80 Begin steep descent over limestone slope, bears N. and
S.
- 39.91 In bottom of small draw, 200 ft. below rim of canyon.
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
a mound of stone over a cross (X) cut in solid rock
for $\frac{1}{4}$ sec. cor., with brass cap marked
- $$\begin{array}{r} 89 \\ + \\ \hline S16 \\ 1926 \end{array}$$
- Deposit a sandstone, 14x8x6 ins., marked with a cross
(X) on one face at base of monument.
- 44.00 Draw, drains S. 20° E.
- 44.53 Trail, bears N. 20° E. and S. 20° W.
- 52.00 Base of sandstone ledges, bears N. and S.; ascend.
- 58.20 Top of ledges and rim, 335 ft. above $\frac{1}{4}$ sec. cor., bears
N. 40° E. and S.; gradually descend.
- 65.30 Begin steep descent over W. slope broken by ledges,
bears N. and S.
- 75.00 Base of ledges, 250 ft. below top, bears N. and S.
- 79.82 The cor. of secs. 8, 9, 15, and 17.
- Land, rough bench, broken by ledges and cut by deep
canyons; general S. exposure and drainage.
- Soil, shallow sand, sandstone and limestone rock; 3rd
and 4th rates.

SUBDIVISION OF TOWNSHIP 20 E.

Chains

Undergrowth, shade, black brush, yellow top and grass.

Undergrowth, shade, black brush, yellow top and grass.

N.0°03'W., bet. secs. 8 and 9.

The line north ascends abruptly over steep talus slope and sandstone ledges which makes chaining impracticable

I therefore triangulate as follows:

Set flag "A" on line

to the north; then

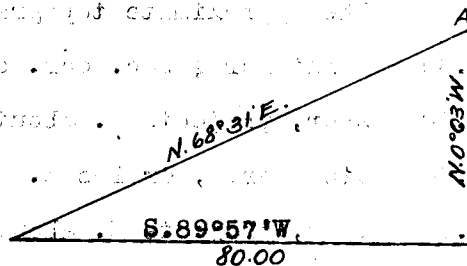
measure base line

S.89°57'W., 80.00

chs. distant. From

W. end of base "A"

bears N.68°31'E.



All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 31.41 chs.

Spur, 300 ft. above sec. cor., projects SE. The true point for the $\frac{1}{4}$ sec. cor. will fall on an inaccessible E. slope where cor. cannot be set; therefore at this point.

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

WC

S8 | S9

1927

Line north from this point follows along precipitous E. talus slope broken by ledges over which it is impracticable to chain; I therefore determine distance ahead on line by triangulation as follows:

Set point "A" on line to the north and designate point

at 31.41 chs. on this line "B"; then, from "A"

SUBDIVISION OF PORT HURON TWP.

Chains

measure base line "AC", East, 80.00 chs. distant.

The line "AB" bears

S.58°49'W. All bear-

ings taken by direct

reading of the solar

and angles checked by

deflection.

Distance by triangulation = 48.39 chs.

The approximate topography from the 32.00 chs. point :

40.00 Point for $\frac{1}{4}$ sec. cor. on inaccessible E. slope.

60.00 Spur, projects E. about 15 chs. distant.

61.00 Steep draw, drains E.

74.00 Spur, projects E. about 3 chs. distant.

79.80 Point of triangulation.

80.00 In shallow draw, drains SE.

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.

a mound of stone over a cross (X) cut in solid rock

for cor. of secs. 4,5,8, and 9, with brass cap mar

T27S R20E

S5 S4

S8 S9

1927

Land, rough bench and rugged talus slopes; general S. drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate

No timber.

Undergrowth, shadscale, blackbrush and mountain rush.

N.89°54'E., on a random line bet. secs. 4 and 9.

40.00 Set temp. $\frac{1}{4}$ sec. cor. on line bet. sec. 4 and 9.

41.62 The line east descends over steep slope broken by sandstone ledges over which it is impracticable to chain.

therefore I triangulate as follows: no base

Set point "A" on line to the east and erect flag "B"

this point; then from "A" measure base line S.2°52'

U.S. SUBDIVISION OF T.27 S., R.20 E.

Chains

.6 chs. distant to

40.00 chs. distant to

point "C". The line

"CB", bears N.42°11'W.

All bearings taken by

direct reading of the

solar and angles checked

by deflection.

Distance by triangulation = 38.14 chs.

79.76 Intersect N. and S. line 33 lks. N. of the cor. of secs. 3,4,9, and 10.

Thence

N.89°52'W., on true line bet. secs. 4 and 9.

Ascend over rough broken SE. and S. slope through short undergrowth.

12.00 Approximate distance to wash, 50 lks. wide, 5 ft. deep, drains S.

16.50 Approximate distance to wash, 30 lks. wide, 3 ft. deep, drains S.

38.14 Point of triangulation on spur, 300 ft. above sec. cor., projects S.; thence along steep talus slope facing S.

39.88 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for 1/4 sec. cor., with brass cap marked

S4

S9

1927

58.00 Begin ascent over SE. slope.

74.10 Wash, 20 lks. wide, 5 ft. deep, drains SE.; begin more abrupt ascent.

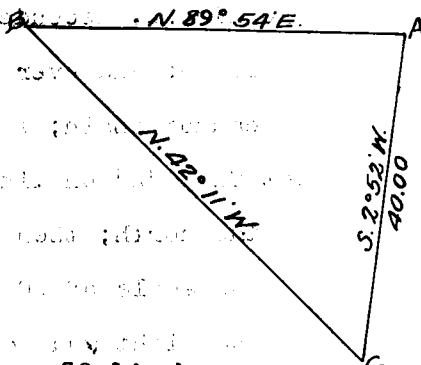
79.76 The cor. of secs. 4,5,8, and 9.

Land, rough, broken bench land and steep talus slopes; general S. exposure and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

No timber.

Undergrowth, shadscale, black brush and mountain rush.

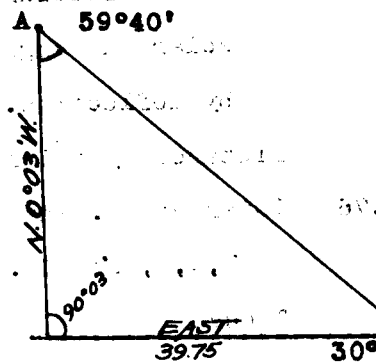


Chains

N.0°03'W., on true line bet. secs. 4 and 5.

The line N. ascends precipitous talus slope broken by ledges and over a high ledge rim of mesa up which cannot chain; I therefore triangulate as follows:

Set flag "A" on line to the north; then deflect and angle of 90°03' to the right and measure base line 39.75 chs. distant to point "B". The angles subtended at "A" and "B" determined by repetition are 59°40' and 30°17' respectively.



Distance by triangulation = 23.22 chs.

- 23.22 Top of ledge, 350 ft. high and rim of mesa, 1000 ft. above sec. cor., bears E. and W.; ascend abruptly.
- 26.30 Top of steep ascent, thence over nearly level top of mesa through scrub timber.
- 31.83 Set flag for future reference.
- 34.95 Point for $\frac{1}{4}$ sec. cor. will fall on inaccessible break mesa where cor. cannot be set; therefore at this p
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins.
a mound of stone over a cross (X) cut in solid rock
for witness cor. to the $\frac{1}{4}$ sec. cor., with brass ca
marked

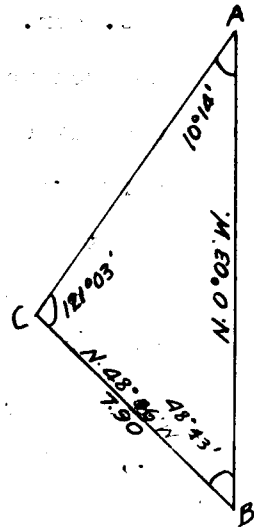
W.C.
1
85 | 84
1927

No suitable bearing trees available.

- 35.10 Top of vertical sandstone ledge about 350 ft. high and rim of mesa, bears N.20°W. and SE.; line to the N. passes over high ledge rims and precipitous slopes cannot be chained, I therefore triangulate as follows:

Chains

Set flag "A" on line to the N. and designate flag at 31.83 chs. point "B". Then with transit over "B" and telescope directed to "A" deflect an angle of $48^{\circ}33'$ to the left and measure base line N. $48^{\circ}36'W.$, 7.90 chs. distant. to point "C".

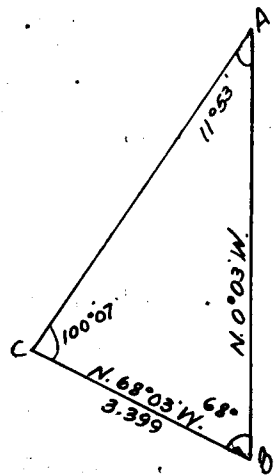


The angles subtended at "A" and "C" determined by repetition are $10^{\circ}14'$ and $121^{\circ}03'$ respectively.

Distance by triangulation = 38.10 chs.

- 40.00 Point for $\frac{1}{4}$ sec. cor. on inaccessible E. break of mesa.
- 67.00 Top of ledge, 350 ft. high and rim of mesa, bears NE. and SW.; thence across narrow point.
- 69.93 Point of triangulation.
- 70.70 Leave flag for future reference.
- 71.00 Top of ledge and rim of mesa, bears NW. and SE.; line north passes over high ledges and rims of mesa and cannot be chained; I therefore triangulate as follows:

Set flag "A" on line to the N., and designate flag at 70.70 chs. "B". Then, with transit over "B" and the telescope directed to "A" deflect an angle of 68° to the left and measure base line "BC" N. $68^{\circ}03'W.$, 3.399 chs. The angles subtended



at "A" and "C" determined by repetition are $11^{\circ}53'$ and $100^{\circ}07'$ respectively.

Distance by triangulation = 16.25 chs.

- 86.95 Point of triangulation on top of ledge and rim of bench, 300 ft. high, bears NE. and SW.
- 86.99 Intersect N. bdy. of the Tp., 6.51 chs. East of the $\frac{1}{4}$

Chains

sec. cor. S. bdy. sec. 32, T.26 S., R.20 E., which
an iron post, 1 in. in dia., firmly set, and marked
and witnessed as described in the field notes of the
survey of T.26 S., R.20 E.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ft.
in a mound of stone over a cross (X) cut in solid
rock for closing cor. of secs. 4 and 5, T.27 S., R.
E., with brass cap marked

T26SR20E
S32

S5 T27S	S4 R20E
CC 1927	

No suitable bearing trees available.

Land, nearly level mesa top and precipitous breaks and
talus slopes; general drainage E.

Soil, shallow sand, clay and sandstone rock; 4th. r.
Timber, scrub juniper and piñon on mesa.

Undergrowth, black brush, mountain rush, and grass.

From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of
the T_p. which is an iron post, 2 ins. in dia., firmly
set, and marked and witnessed as described in the
field notes of the survey of T.26 S., R.20 E., back
"B" this group.

N.0°03'W., bet. secs. 31 and 32.

Ascend over rough, broken bench land, through short
undergrowth.

7.50 Spur, projects N.10°W.; descend.

16.35 Top of ledge about 150 ft. high and S. rim of box ca.
draining E. Canyon is about 250 ft. deep and 10 ft.
wide from rim to rim. To determine distance across
canyon triangulate as follows:

Set flag "A" on line to the north, then return to the
cor. of secs. 5, 6, 31 and 32 and measure base line

SUBDIVISION OF T. 27 S. R. 20 E.

Chains

N. 89° 56' W., 70.03 chs.

From W. end of base flag

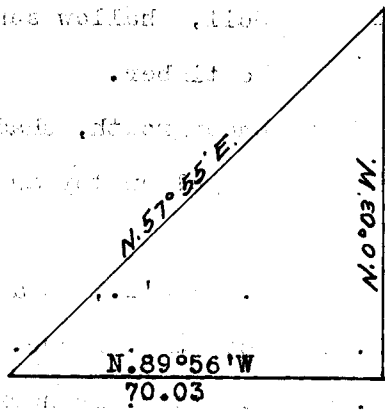
"A" bears N. 57° 55' E. All

bearings taken by direct

reading of the solar and

angles checked by deflect-

ion.



Distance by triangulation

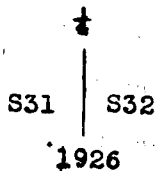
= 43.96 chs.

Distance by return measurement

3.96 "

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 24 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked



from which

A sandstone boulder, 9x 9x 10 ft., marked

$\frac{1}{4}$ X B O bears N. 50° W., 97 lks. distant.

A sandstone boulder, 8x10x12 ft., marked

$\frac{1}{4}$ X B O bears N. 36° E., 121 lks. distant.

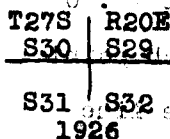
Also, deposit a sandstone, 12x12x8 ins., marked with a cross (X) on one face alongside base of post.

43.96 Point of triangulation; thence over rolling bench through short undergrowth.

68.96 Trail, bears NE. and SW.

80.00 On surface rock, mark a cross (X), over which

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a mound of stone for cor. of secs. 29, 30, 31, and 32, with brass cap marked



Land, rolling and broken bench cut by canyons rimmed with high ledges; general E. exposure and drainage.

... 08.00.00 TO 10.00.00 H.

Chains

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Undergrowth, shadscale, black brush, mountain rush,
yellow top and grass.

S.89°55'E., on a random line bet. secs. 29 and 32.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

58.06 Set temp. meander cor. on right bank Colorado River.

To determine distance across river I triangulate as follows:

Set point "A" on line on

E. side of river and

erect flag "B" at this

point; then, from "A"

measure base line "AC"

S.49°49'W., 11.54 chs.

distant. The line "CB"

bears N.39°37'W. All

bearings taken by

direct reading of the solar and angles checked by deflection.

Distance on line to "B" = 58.06 chs.

Distance "BA" by triangulation = 15.00 "

Distance by return measurement = 73.06 "

Distance by return measurement = 72.87 "

72.87 Set temp. meander cor. on left bank Colorado River.

Line east ascends high ledge rims and break of canyon

up which I cannot chain; triangulate to top of rim

follows:

Set flag "A" on line E.,

then return to temp.

$\frac{1}{4}$ sec. cor. at 40.00

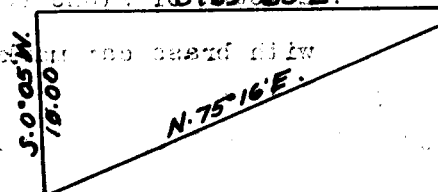
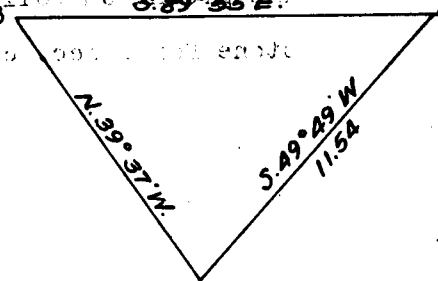
chs. from which point

I measure base line

S.0°05'W., 10.00 chs.

distant. From S. end of

base flag "A" bears N.75°16'E. All bearings taken



SUBDIVISION OF T27 S., R.20 E.

Chains

direct reading of the solar and angles checked by deflection.

Distance by triangulation = 37.80 chs..

77.80 Point of triangulation.

79.80. Intersect N. and S. line 12 lks. N. of the cor. of secs. 28,29,32, and 33.

Thence .

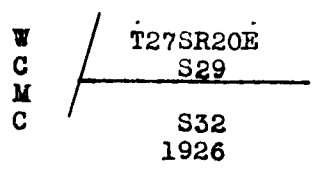
N.89°50'W., on true line bet. secs. 29 and 32.

Over rough broken bench land through short undergrowth.

2.00 Point of triangulation on top of high ledge rim of Colorado River Canyon, bears NE. and SW.; precipitous descent over ledges.

6.74 Point of triangulation in bottom of Colorado River Canyon.

6.76 Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in the ground for witness cor. to the meander cor. of secs. 29 and 32 on the left bank of the Colorado River with brass cap marked

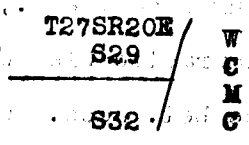


Deposit a sandstone, 6x5x3 ins., marked with a cross (X) on one face at base of monument.

6.93 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 29 and 32.

21.74 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 29 and 32.

22.03 Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in the ground for witness cor. to the meander cor. of secs. 29 and 32 on the right bank of the Colorado River, with brass cap marked



Deposit a 7x5x3 ins. stone at base of post.

Chains

Ascend.

- 31.40 Top of limestone ledge and rim, about 180 ft. high, bears N. 75° E. and SW.; thence over bench through short undergrowth.
- 39.90 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground over a cross (X) cut in solid rock and 24 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ 829
 832
 1926

from which

A sandstone ledge, marked $\frac{1}{4}$ X B0, bears N.

72°53'W., 262 lks. distant.

Cor. stands at base of bench, bears N. and S.; ascend abruptly 225 ft. to

- 43.75 Top of ledge rim, bears N. and S. 20° W.; continue ascend over broken E. slope.
- 75.00 Top of white sandstone ledge rim, 75 ft. high, bears and S.
- 76.10 Trail, bears N. and SW.
- 79.80 The cor. of secs. 29, 30, 31, and 32, 400 ft. above rim 43.75 chs.

Land, rough benches broken by ledges; general E. and exposure and drainage to Colorado River which flows

Soil, shallow sand, clay, sandstone and limestone rock 3rd. and 4th. rates.

No timber.

Undergrowth, shadescale, black brush and mountain rue with dense willow along Colorado River.

The line bet. secs. 30 and 31 follows along a precipitous spur projecting from the W., and strikes ledges over which it is impracticable to chain; therefore, I run an offset line bet. secs. 30 and 31 as follows:

South, 12.80 chs., then on offset line

SUBDIVISION OF T.27 S., R.20 E.

Chains

N.89°55'W., 40.00 chs., then

North, 12.80 chs. to true random line at

40.00 Set temp. $\frac{1}{4}$ sec. cor.From $\frac{1}{4}$ sec. cor.,

South, 12.80 chs., then

N.89°55'W., 39.26 chs., then

North, 12.80 chs. to true random line at

79.26 Intersect W. bdy. of the Tp. 9 lks. N. of the cor. of.
secs. 25,30,31, and 36 heretofore described.

Thence

S.89°59'E., on true line bet. secs. 30 and 31.

To pass ledges and precipitous slopes of spur, offset.

South, 12.80 chs., then on offset line

S.89°59'E., 39.26 chs. Over rolling bench land through
short undergrowth.At 30.00 begin ascent W. slope
of spur.At 34.90 top of spur, projects
S.; descend E. slope.

North, 12.80 chs. to true line at

39.26 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in
the ground over a cross (X) cut in solid rock and 24
ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass
cap marked

S30

S31

1926

from which

A sandstone ledge, marked $\frac{1}{4}$ X B0, bears N.32°W.,

27 lks. distant.

Return to point on offset line 12.80 chs. S. of the $\frac{1}{4}$
sec. cor. and continue

S.89°59'E., 79.26 chs. (counted from sec. cor.)

At 75.80 spur, projects S.

North, 12.80 chs. to true line at

79.26 The cor. of secs. 29,30,31, and 32.

Land, rolling and rough broken bench; general SE. exposure
and drainage.

Soil, shallow sand, clay and sandstone rock; 4th. rate.

SUBDIVISION OF T.27 S., R.20 E.

Chains

No timber.

Undergrowth, shadscale, yellow top, mountain rush and grass.

N.0°03'W., bet. secs. 29 and 30.

Over rolling and broken bench land through short undergrowth.

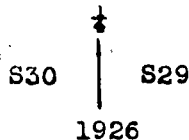
15.30 Trail, bears NW. and SE.

23.19 Set flag for future reference.

23.50 Top of white sandstone ledge rim, about 100 ft. high, bears NW. and SE.; descend abruptly.

30.00 Base of steep descent, 225 ft. below rim, bears NW. and SE.; thence over small rocky bench.

40.00 On surface rock, mark a cross (X) over which
 Set an iron post, 3 ft. long, 1 in. in dia., 30 in.
 in a mound of stone for $\frac{1}{4}$ sec. cor. with brass cap
 marked



from which

A sandstone ledge, marked $\frac{1}{4}$ X BO, bears S.30°
 231 lks. distant.

A sandstone ledge, marked $\frac{1}{4}$ X BO, bears N.24°
 231 lks. distant.

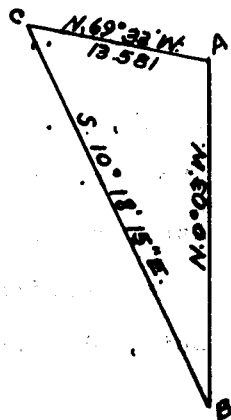
Thence over rough, broken sandstone ledges.

49.25 Top of high sandstone ledge and rim of box canyon, be
 E. and W.; high ledges ahead on line make chaining
 impracticable, I therefore triangulate as follows:

Set point "A" on line to
 the N., and designate
 flag at 23.19 chs. "B".

Then from "A" measure
 base line "AC", N.69°
 33'W., 13.581 chs.

The line "CB" bears



SUBDIVISION OF T.27E., R.28E.

Chains

most recent; bearing S. 10° 18' 15" E. All bearings taken by direct reading of the solar and angles checked by deflection.
 Distance by triangulation = 65.56 chs.
 Distance on line to "B" = 23.19 "
 Total distance to "A" = 88.75 "
 Distance by return measurement = 8.75 "

58.25 Bottom of box canyon about 300 ft. deep, drains E.; a small spring in bottom of canyon bears E. about 4 chs. distant and a water pocket or tank in solid rock bears E. approximately 20 chs. distant.

67.25 Top of ledge and N. rim of canyon, bears E. and W.; continue over broken bench.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for cor. of secs. 19, 20, 29, and 30, with brass cap marked

T27S	R20E
S19	S20
S30	S29
1926	

from which

A sandstone ledge, marked S20 X B0, bears N. 74° 30' E., 145 lks. distant.

Cor. stands on SW. slope of rocky spur.

Land, rough broken bench; general E. exposure and drainage.

Soil, shallow sand, clay and sandstone rock, 4th. rate.

No timber.

Undergrowth; shadescale; yellow top and grass.

S. 89° 50' E., on a random line bet. secs. 20 and 29.

22.04 Top of high ledges and

break of Colorado

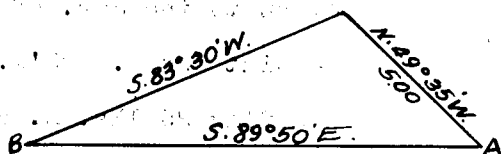
River; chaining is

impracticable, there-

fore triangulate as

follows:

Set point "A" on line to



SUBDIVISION OF T.27 S., R.20 E.

Chains

the east an erect flag "B" at this point; then from "A" measure base line N.49°35'W., 5.00 chs. (along sand bar in Colorado River) to point "C". The line "CB" bears S.83°30'W. All bearings taken by direct reading of the solar and angles checked by deflection

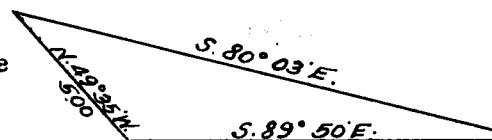
Distance on line to "B"	= 22.04 chs.
Distance line "BA" by triangulation	= 31.46 "
Distance on line to "A"	53.50 "
Distance by return measurement	13.50 "

40.00 Set temp. $\frac{1}{4}$ sec. cor.

45.37 Mean highwater mark on right bank Colorado River. Set temp. meander cor.

53.50 Point of triangulation on sand bar in Colorado River; to determine distance across channel, I triangulate as follows:

Set point "A" on line to the east; then measure base line N.49°35'W., 5.00 chs. From N. end of base flag "A" bears S.80°03'E. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance to west point of triangulation	= 53.50
Distance by triangulation	14.92
Distance to "A"	68.42
Distance by return measurement	.62

67.80 Mean high water mark on left bank Colorado River; set temp. meander cor.

68.42 Point of triangulation. The line east ascends high ledges and breaks of canyon up which I cannot chain. I therefore make the following triangulation in order to determine the bearing and distance of the mile. Return to the cor. of secs. 19, 20, 29, and 30 and set point "A" N.0°03'W., 10.25 chs. distant. From "A" a flag 25 lks. E. and 2 lks. S. of the cor. of secs. 20, 21, 28, and 29 bears S.82°30'30"E. I also return to my flag at 23.19 chs. on line bet. secs. 29 and 30 and set point "A" on line bet.

SURVEILANCE OF T. 27 N., R. 20 E.

Chains

30, from which point the
flag 25 lks. E. and 2 lks.

S. of the cor. of secs.

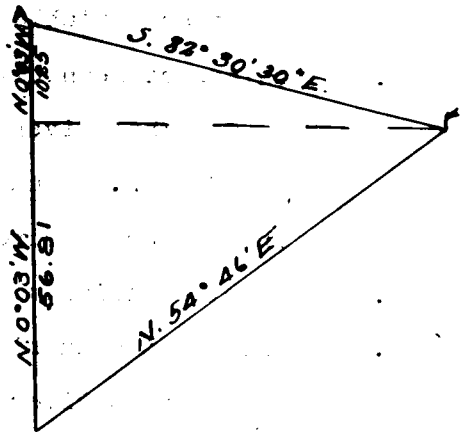
20, 21, 28, and 29 bears

N. 54° 46' E. All bearings

taken by direct reading

of the solar and angles

checked by deflection.



Distance by triangulation from "A" to point 25 lks. E.

and 2 lks. S. of cor. of secs. 20, 21, 28, and 29

= 80.78 chs. or an easting of 80.09 chs. and southing
of 10.53 chs.

80.09 chs. - .25 lks. = 79.84 chs. distance of line bet.
secs. 20 and 29.

10.53 chs. - 10.25 chs. - .02 chs. = .26 chs. the distance
the cor. of secs. 20, 21, 28 and 29 is south of the
cor. of secs. 19, 20, 29, and 30.

Thence from cor. of secs. 20, 21, 28, and 29.

N. 89° 49' W., on true line bet. secs. 20 and 29.

Over rough broken bench land through short undergrowth.

Top of high ledge and rim of Colorado River Canyon, bears
NE. and S. 20° W.; precipitous descent over series of
high ledges.

Point of triangulation in bottom of Colorado River
Canyon.

Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in
the ground for witness cor. to the meander cor. of
secs. 20 and 29 on the left bank of the Colorado
River, with brass cap marked

W T27SR20E
C S2Q
M

1926

from which

A sandstone boulder, 10 x 8 x 6 ft., marked WMC, S 20

XBO, bears N. 8° 55' W., 4.85 lks. distant.

SUBDIVISION OF T. 29 N. R. 29 E.

Chains

No other suitable accessories available.

- 12.04 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 20 and 29.

Thence across river.

- 26.34 Point of triangulation on sanbar in river.

- 34.47 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 20 and 29.

- 35.14 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for witness cor. to the meander cor. of secs. 20 and 29 on the right bank of the Colorado River, with brass cap marked

T27SR20E
S20
S29
W
C
M
S

1926

Deposit a sandstone, 14x8x8 ins., marked with a cross (X) on one face at base of monument.

- 39.92 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S20
 $\frac{1}{4}$
S29
1926

from which

A sandstone boulder, 20x10x8 ft., marked $\frac{1}{4}$ X bears S.15°54'E., 289 lks. distant.

Deposit a sandstone, 6x5x4 ins., marked with cross (X) on one face at base of monument

Ascend abruptly over high ledges and breaks of canyon

- 57.80 Point of triangulation on top of ledge and rim of Colorado River Canyon; bears NW. and S.50°E.; then over rough broken bench land through short undergr

- 71.15 Spur projects SE.; gradually descend along SW. slope.

- 79.84 The cor. of secs. 19, 20, 29, and 30. Land, broken bench, precipitous breaks and river bott

SURVIVISION T.27 S. R.20 E.

Chains

Soil, shallow sand, clay and rock of sandstone formation;

2nd. to 4th. rates.

No timber.

Undergrowth, shadscale, black brush and mountain rush
with willow along river.

N.89°59'W., on a random line bet. secs. 19 and 30.

Set temp. $\frac{1}{4}$ sec. cor.

Intersect W. bdy. of the Tp. 7 lks. N. of the cor. of
secs. 19, 24, 25, and 30 heretofore described.

Thence

N.89°58'E., on true line bet. secs. 19 and 30.

Descend along general N. slope over rough broken land
through short undergrowth.

Draw, 85 ft. below sec. cor., drains SE.; ascend.

Spur, 75 ft. above draw, projects S.; descend.

Same draw, drains NE.; ascend over low point.

Same draw, drains SE.

Thence along general S. slope of spur.

On surface rock, mark a cross (X) over which

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap
marked

$$\begin{array}{r} \frac{1}{4} \quad S19 \\ \hline S30 \\ 1926 \end{array}$$

from which

Solid sandstone ledge, marked $\frac{1}{4}$ X B0, bears

N.73°28'E., 135 lks. distant.

No other bearing objects available.

The cor. of secs. 19, 20, 29, and 30.

Land, rolling and broken bench; general E. exposure and
drainage.

Soil, shallow sand and sandstone rock; 4th. rate.

No timber.

Undergrowth, black brush, shadscale, yellow top and grass.

Chains

anlar

N.0°03'W., bet. secs. 19 and 20.

Ascend over rough broken bench land through short undergrowth.

7.75 Spur, 85 ft. above sec. cor., projects S.75°E.; descend
11.45 Top of high ledge and rim of Colorado River Canyon,

bears NW. and SE.; precipitous descent down which

I cannot chain; therefore triangulate as follows:

Set point "A" on line

north and erect flag

"B" at this point;

then from "A" measure

base line N.89°57'E.,

5.00 chs. to point "C."

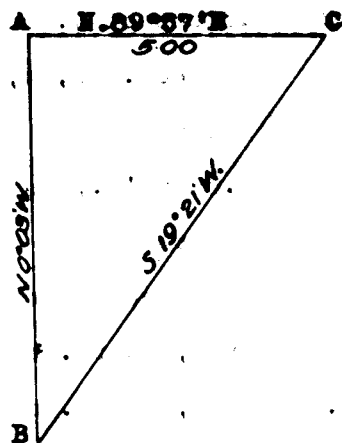
The line "CB" bears

S.19°21'W. All bearings

taken by direct reading

of the solar and angles

checked by deflection.



Distance on line to "B" = 11.45 chs.

Distance "BA" by triangulation = 14.20 "

Distance to "A" = 28.65 "

Distance by return measurement = 3.47

22.18 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. 1

the ground for witness cor. to the meander cor. of

secs. 19 and 20 on the right bank of the Colorado

River, with brass cap marked

WCMC
S19 S20
T278 R20E
1926

Deposit a sandstone, 10x6x6 ins., marked with a cross
on one face at base of monument.

22.31 Intersect mean high water mark on the right bank of the
Colorado River and true point for the meander cor.
secs. 19 and 20.

23.65 Point of triangulation on snailbar in Colorado River,
550 ft. below rim of canyon. To determine distance

SUBDIVISION OF T.27 S., R.20 E.

Chains

across river Channel I triangulate as follows:

Set point "A" on line

to the north and use

base line of previous

triangulation for base

in this triangulation.

(N.89°57'E., 5.00 chs.)

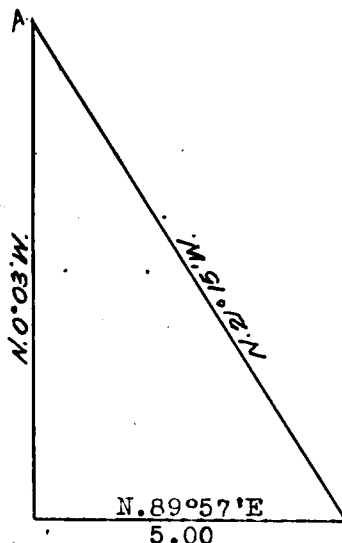
From E. end of base "A"

bears N.21°15'W. All

bearings taken by direct

reading of the solar and

angles checked by deflection.



Distance by triangulation = 12.89 chs.

Distance on line to point triangulation 25.65 "

Distance on line to "A" 38.54 "

Return measurement .20 "

38.34 "

38.34 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 19 and 20.

38.54 Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in the ground for witness cor. to the meander cor. of secs. 19 and 20 on the left bank of the Colorado River, with brass cap marked

T27S R20E
S19 S20

WCME
1926

Deposit a sandstone, 10x8x6 ins., marked with a cross (X) on one face at base of monument.

40.00 Point for $\frac{1}{4}$ sec. cor. falls in depression subject to overflow.

41.00 At base of ledge, bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for witness cor. to the $\frac{1}{4}$ sec. cor. with brass cap marked

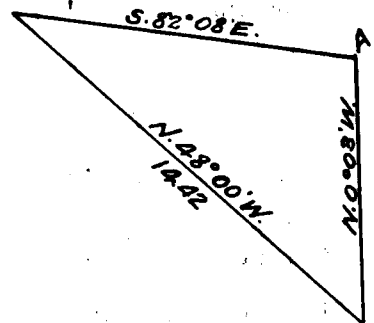
Chains

S19 | S20

WC
1926

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. stands at base of high ledge, bears N.30°W. and S.30°E. Precipitous ascent over ledges up which I cannot chain; therefore triangulate as follows:

Set flag "A" on line to the north; then measure base line N.48°00'W., 14.42 chs. distant. From W. end of base flag "A" bears S.82°08'E.



All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 8.17 chs.

49.17 Top of ledges bears NW. and SE.

64.21 Base of sandstone butte, bears NW. and SE.; to pass by I offset as follows:

West, 2.21 chs., then on offset line

N.0°03'W., 8.60 chs. to edge of red sandstone ledge and rim of Colorado River Canyon, bears N.10°W. and S. E.; ledge about 200 ft. high and chaining is impracticable, I therefore determine distance ahead on line as follows:

Erect flag "A" at this

point and a flag "B"

55.46 chs. west of the

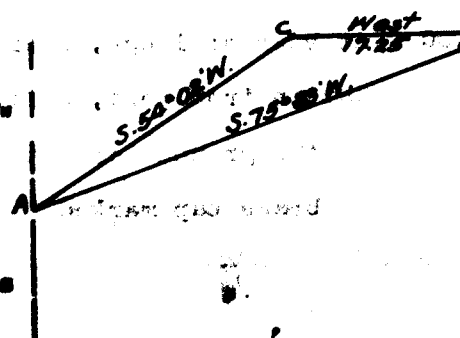
cor. of secs. 16, 17, 20,

and 21, also a flag "C"

72.71 chs. west of the

cor. of secs. 16, 17, 20

and 21. Line "BA" bears



SUBDIVISION OF T. 27 S, R 20 E.

chains

bears S 75°33' W, and line C-A bears S 54°02' W, all bearings taken by direct readings of the solar attachment and all angles checked by deflection.

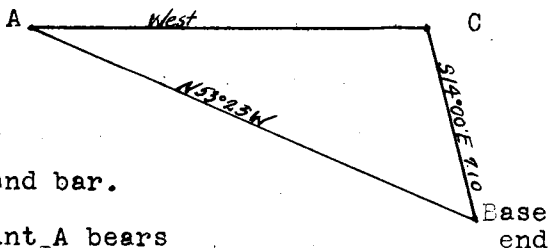
Distance on line A-C by triangulation 11.74 chains. Point C is, therefore, 6.89 chains north and 9.50 chains east of point A.

9.50 chains minus 2.20 chains = 7.30 chains; the distance point C is east of true line. Offset West 7.30 chains to true line as follows:

Point "C" being on the east side of the Colorado River,

I triangulate across the river as follows: From C,

Set flag West (A)



then from C survey

base line S 14°00' E,

7.100 chains along sand bar.

From the base end point A bears

N 53°23' W. All bearings taken by direct reading of the solar attachment and all angles checked by deflection.

Distance by triangulation	7.55 chains
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Distance by return measurement	.25 chains
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Total offset to West	7.30
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9.90 Point on true line between sections 19 and 20, thence

N 0°03' W, on true line.

0.00 On a NE slope, set an iron post, 3 ft. long and 2 ins. in dia. 12 ins. in the ground to solid rock and in a mound of stone for the corner of sections 17, 18, 19 and 20, with a brass cap marked:

T27SR20E	
S18	S17
S19	S20
1926	

from which,

Face of a sandstone ledge, marked XBOS19, bears

S 64°30' W, 39 lks. distant.

Face of a sandstone ledge, marked XBOS18, bears

N 67°00' W, 143 lks. distant.

Subdivision of T 27 S, R 20 E.

Chains

Land, rough benches broken by high ledges; along the river a narrow alluvial bench.

Soil, shallow sand, sandstone rock and alluvial, 1st to 4th rates.

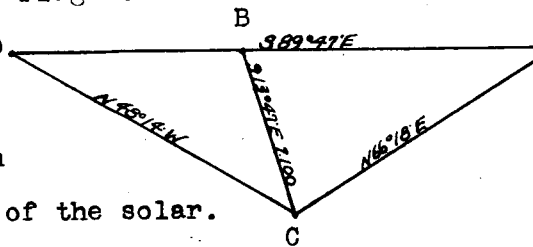
Timber, none.

Undergrowth, shadscale, black brush, yellow top, willow and grass.

Grazing, fair.

S 89°47' E, on a random line, for distance only, between sections 17 and 20.

- 1.24 Intersect mean high water on the left bank of the Colorado River; set temp. meander corner; thence across River by triangulation. Designate this point as D. Set flag B on the right bank of the river and from B survey base line B-C S 13°47' E, 7.100 chains. Set a second flag, A, on line to the east and on the break of the river canyon. From C the flag at D, bears N 48°14' W and the flag at A bears N 66°18' E. All angles check-D by repetition and bearings taken by direct reading of the solar.



Distance by triangulation D-B 6.06

Distance on line to point B 7.30

- 7.30 Triangulation point.

- 7.93 Intersect mean high water, right bank of the river, set temp. meander corner. Return to point B.

Distance by triangulation B-C 17.25

Distance on line to point A, 24.55

- 24.55 Triangulation point A, thence by chaining.

- 26.36 Line east crosses a box canyon over which chaining is impracticable: To determine distance I triangulate as follows:

... of ...

Chains

Set point "A" on line

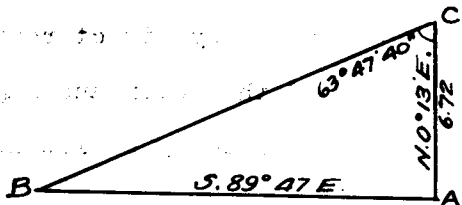
to the east and erect

flag "B" at this

point. Then, from "A"

measure base line

N.0°13'E., 6.72 chs.



to point "C". The angle subtended at "B" determined

by repetition is 63°47'40".

Distance by triangulation

= 13.65 chs.

Distance on line to "B"

= 26.36 "

Distance on line to "A"

40.01 "

Distance by return measurement

.01 "

40.00

Set temp. $\frac{1}{2}$ sec. cor.

47.15

Line east descends over high ledges and breaks of Colo-

rado River Canyon; down which it is impracticable to

chain, I therefore triangulate as follows: Designate

this point as 'A', set flag 'B' on top of ledge over-

looking the river and from B, survey a base line EC

N 24°54' E, 6.432 chains; from C flag 'A' bears S 74°

27' West, Distance by triangulation 18.10

Distance on line to point 'A' 47.15

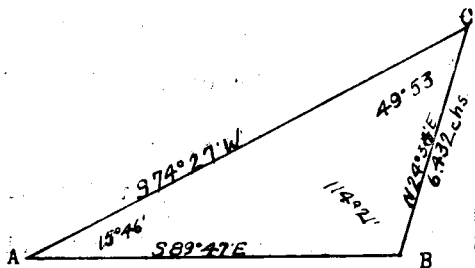
Distance on line to point 'B' 65.25

65.25

Triangulation point on limestone ledge, overlooking

the Colorado River, desc. abruptly over ledges

bearing NE and SW.



56.87

Intersect mean high water mark right bank Colorado River;

set temp. meander cor.

To determine distance across river, I triangulate as

follows:

Set point "A" on line to the east and erect flag "B" at

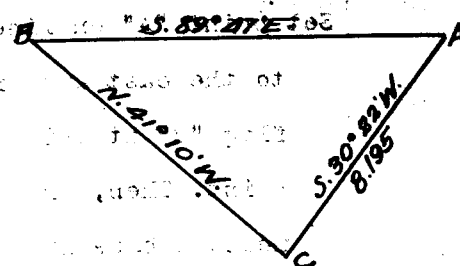
this point; then, from "A" measure base line "AC"

S.30°22'W., 8.195 chs. distant. The line "CB" bears

to ...

Chains

N. 41° 10' W. All bearings taken by direct reading of the solar and angles checked by deflection.

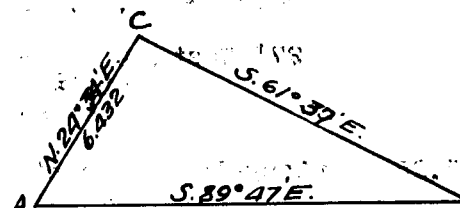


Distance on line to "B" = 66.87 chs.
 Distance "BA" by triangulation = 10.36 "
 Distance on line to "A" = 77.23 "
 Distance by return measurement .31 "

76.92 Intersect mean high water mark left bank Colorado River; set temp. meander cor.

77.23 Point of triangulation; the line east ascends high ledge up which I cannot chain; therefore triangulate as follows:

Return to a point at 65.25 chs. on random line which I designate "A" and set flag "B" on line to the east. Then, measure base line "AC", N. 24° 31' E., 6.432 chs. The line "CB" bears S. 61° 37' E. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation = 13.60 chs.

78.85 Point of triangulation.

80.01 Intersect the cor. of secs. 16, 17, 20, and 21.

Thence

N. 89° 47' W., on true line bet. secs. 17 and 20.

Over broken bench land through short undergrowth.

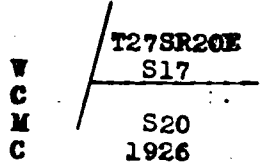
1.16 Point of triangulation on top of high ledge and rim of Colorado River Canyon, bears NE. and S.; descend abruptly.

2.67 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for witness cor. to the meander cor. of

SUBDIVISION OF T.27 S., R.29 E.

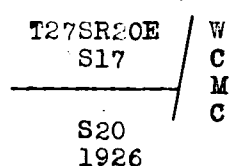
Chains

secs.17 and 20 on the left bank of the Colorado River,
with brass cap marked



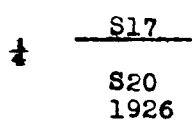
Deposit a sandstone, 10x10x6 ins., marked with a cross.
(X) on one face at base of monument.

- 2.78 Point of triangulation.
- 3.09 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 17 and 20.
- 13.14 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs.17 and 20.
- 13.44 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in the ground for witness cor. to the meander cor. of secs.17 and 20 on the right bank of the Colorado River, with brass cap marked



Raise a mound of stone, 2 ft.base, 1½ ft.high, W.of cor.

- 14.76 Point of triangulation; thence by triangulation over high ledges and breaks of Colorado River Canyon.
- 32.86 Point of triangulation on top of spur, projects SW.
- 40.00 Point of triangulation.
- 40.00½ Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground over a cross (X) cut in solid rock and 24 ins. in a mound of stone for ¼ sec. cor., with brass cap marked



Thence by triangulation across deep box canyon.

- 41.00 E. rim of canyon, bears N. and S.
- 45.00 Bottom of canyon, drains SW.

SUBDIVISION OF T.27 S., R.20 E.

Chains

- 53.65 Point of triangulation on top of W. rim of canyon, bearing N. and S.
- 55.46 Top of high ledge and rim of Colorado River Canyon, bearing NW. and SE.; precipitous descent over ledges. Thence by triangulation.
- 71.71 Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the ground for witness cor. to the meander cor. of secs. 17 and 20 on the right bank of the Colorado River, with brass cap marked

	T27SR20E
W	S17
C	
M	
C	S20
	1926

Deposit a sandstone, 10x6x4 ins., marked with a cross (X) on one face at base of monument.

- 72.08 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 17 and 20.
Thence across river.

- 72.71 Point of triangulation on sandbar in river.

- 78.77 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 17 and 20.

- 78.87 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for witness cor. to the meander cor. of secs. 17 and 20 on the left bank of the Colorado River with brass cap marked

	T27SR20E
	S17
	S20
	1926

Deposit a sandstone, 6x4x3 ins., marked with a cross (X) on one face at base of monument.

Ascend.

- 80.01 The cor. of secs. 17, 18, 19, and 20.

Land, rough benches and breaks of Colorado River.

Soil, shallow sand, sandstone and limestone rock and

SUBDIVISION OF T.27S., R.20 E.

Chains

alluvial; 1st. to 4th. rates.

No timber.

Undergrowth, shadscale, black brush, yellow top, willow and grass.

S.89°58'W., on a random line bet. secs. 18 and 19.

Being unable to proceed west from the cor. of secs. 17, 18, 19, and 20 on account of a high red sandstone rim over which I am unable to chain or triangulate, I begin at point on offset line bet. secs. 19 and 20, 7.19 chs. S.0°03'E., and 2.21 chs. west of the cor. of secs. 17, 18, 19, and 20,

Thence

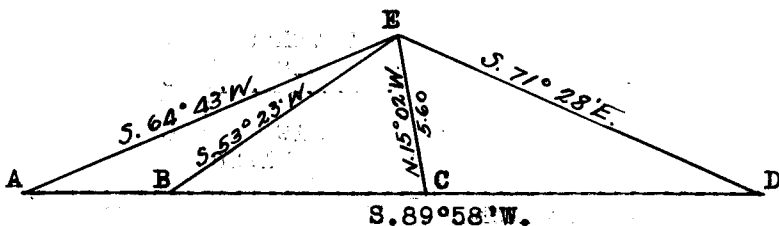
S.89°58'W., on offset line, 15.00 chs. (counted from sec. cor.), then

N.0°03'W., 7.19 chs. to true random line at

15.00 Thence S.89°58'W.

28.25 Top of high ledge rim of Colorado River Canyon; to determine distance into canyon, across river and to the top of west rim of canyon I make the following triangulation.

Set flags "A", "B", and "C" on line to the west and erect flag "D" at this point; then, from "C" measure base line "CE", N.15°02'W., 5.60 chs. distant. The line "ED" bears S.71°28'E., the line "EB" bears S.53°23'W., and the line "EA" bears S.64°43'W. All bearings taken by direct reading of the solar and angles checked by deflection.



SUBDIVISION OF T.27 S. R.20 E.

Chains

- Distance on line to "D" = 28.25 chs.
 Distance "CD" by triangulation = 14.66 "
 Distance on line to "C" 42.91 "
 Return measurement 2.91 "
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 43.83 Intersect mean high water mark left bank Colorado River
 set temp, meander cor.
- Distance on line to "C" = 42.91 chs.
 Distance "CB" by triangulation = 8.74 "
 Distance on line to "B" 51.65 "
 Return measurement .80 "
- 50.85 Intersect mean high water mark right bank Colorado River
 set temp. meander cor.
- Distance line "CA" by triangulation = 12.92 chs. which
 added to 42.91 chs. gives
- 55.83 To point "A".
- 79.12 Intersect W. bdy. of the Tp. 14 lks. S. of the cor. of
 secs. 13, 18, 19, and 24 heretofore described.
 Thence
 S. 89° 56' E., on true line bet. secs. 18 and 19.
 Abrupt ascent NW. slope of canyon over broken sandstone
 ledges and detached boulders.
- 10.95 Spur, 330 ft. above sec. cor., projects N.; descend 150
 ft. to
- 23.29 To point of triangulation on top of high ledge and rim
 of Colorado River Canyon, bears N. and S. 15° E.;
 descend abruptly over ledges.
- 27.47 Point "B" of triangulation.
- 28.17 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
 a mound of stone over a cross (X) cut in solid rock
 for witness cor. to the meander cor. of secs. 18 and
 19 on the right bank of the Colorado River, with
 brass cap marked

T27SR20E	W
S18	C
S19	M
1926	C

from which

SUBDIVISION ON T.27 S. R.20 E.

Chains

Sandstone outcropping, marked WC X BO S19,
bears South, 3 lks. distant.

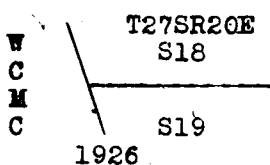
28.27 Intersect mean high water mark on the right bank of the
Colorado River and true point for the meander cor. of
secs. 18 and 19.

This point is 520 ft. below rim.

Thence across river.

35.29 Intersect mean high water mark on the left bank of the
Colorado River and true point for the meander cor. of
secs. 18 and 19.

35.83 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in
the ground for witness cor. to the meander cor. of
secs. 18 and 19 on the left bank of the Colorado
River, with brass cap marked

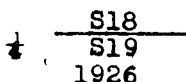


Deposit a sandstone, 6x6x3 ins., marked with a cross (X)
on one face at base of monument.

Thence over level bottom lands.

36.21 Point "C" of triangulation.

39.12 Set an iron post, 3 ft. long, 1 in. in dia., 27 ins. in
the ground for $\frac{1}{4}$ sec. cor., with brass cap marked



Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

48.00 Base of high ledges and E. edge of bottom of lands, bears
N. and S.; ascend abruptly.

50.87 To point "D" of triangulation on top of high ledge rim
of canyon, 400 ft. above river, bears N. and S.;
thence over bench land through short undergrowth.

64.12 To point of offset; thence
S.0°03'E., 7.19 cha., then on offset line
S.89°56'E., 12.79 cha. to point on offset line bet. secs.

19 and 20, then

SUBDIVISION OF T. 27 S. R. 18 E.

Chains

an 1250

N.0°03'W., 7.19 chs., then

S.89°56'E., 2.21 chs. to

79.12

The cor. of secs. 17, 18, 19, and 20.

Land, rough broken bench land and level river bottom.

Soil, shallow sand, sandstone and limestone rock and
alluvial; 1st. to 4th. rates.

No timber.

Undergrowth, short shadscale, black brush, yellow top,
willow and grass.

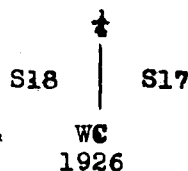
N.0°03'W., bet. secs. 17 and 18.

Along rocky E. slope of Colorado River Canyon through
short undergrowth and over slide rock.

40.00

On sloping surface rock. This point will not furnish a
secure location for the $\frac{1}{4}$ section corner.

41.00

Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in
the ground over a cross (X) cut in solid rock and 10
ins. in a mound of stone for witness cor. to the $\frac{1}{4}$
sec. cor., with brass cap marked

from which

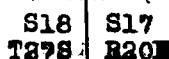
A sandstone boulder, 10x8x5 ft., marked $\frac{1}{4}$ X B0,
bears N.30°W., 41 lks. distant

No other bearing objects available.

65.44

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
the ground for witness cor. to the meander cor. of
secs. 17 and 18 on the left bank of the Colorado
River, with brass cap marked

WCME



1926

Deposit a sandstone, 6x5x3 ins., marked with a cross (X)

SUBDIVISION OF T.27 S., R.20 E.

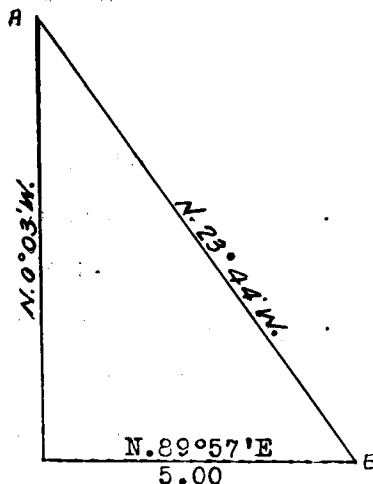
on one face at base of monument.

- 65.77 Intersect mean high water mark on the left bank of the Colorado River and true point for the meander cor. of secs. 17 and 18.

To determine distance across river, I triangulate as follows:

Set point "A" on N. side of river; then, from witness meander cor. at 65.44 chs. measure base line N.89° 57'E., 5.00 chs. From E. end of base, point "A"

bears N.23°44'W. All bearings taken by direct read-



ing of the solar and angles checked by deflection.

Distance on line to witness meander cor.	= 65.44 chs.
Distance by triangulation	= 11.40 "
Distance on line to point "A"	76.84 "
Distance by return measurement	.10 "

- 76.74 Intersect mean high water mark on the right bank of the Colorado River and true point for the meander cor. of secs. 17 and 18.

- 76.84 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for witness cor. to the meander cor. of secs. 17 and 18 on the right bank of the Colorado River, with brass cap marked

T27S	R20E
S18	S17

WCMC
1926

Precipitous ascent over high ledge up which I cannot chain; to determine distance to top I triangulate as follows:

Set point "A" on line to the north and erect flag "B" at 64.37 chs. on line bet. secs. 17 and 18; then, from "A" measure base line S.89°57'W., 800 chs. distant. From W. end of base flag "B" bears S.28°53'E.

SUBDIVISION OF T. 27 S. - R. 20 E.

Chains

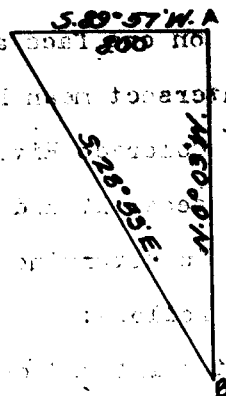
All bearings taken

by direct reading

of the solar and

angles checked

by deflection.



Distance by triangulation = 14.53 chs.

78.90 Top of ledge, 265 ft. above Colorado River, bears E. and W.; thence along gentle NE. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground on solid rock and 20 ins. in a mound of stone for cor. of secs. 7, 8, 17, and 18, with brass cap marked

T27S	R20E
S7	S8
S18	S17
1926	

Deposit a limestone, 7x5x4 ins., marked with a cross (X) on one face at base of monument.

Land, rough, rocky breaks of the Colorado River.

Soil, rocky and shallow sand, sandstone and limestone formation; 4th. rate.

No timber:

Undergrowth, shadscale, rabbit brush, and yellow top, with willow along river.

S. 89° 47' E., on a random line bet. secs. 8 and 17.

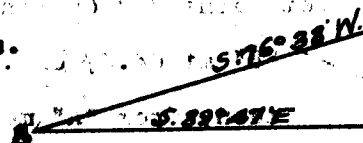
.66 Set flag for future reference.

7.25 Line east crosses canyon rimmed with ledges over which it is impracticable to chain; therefore triangulate as follows:

Set flag "A" on line east and designate flag at .66 chs.

"B"; then, from "A"

measure base line



SUBDIVISION OF T.27 S., R.20 E.

Chains

"AC", N.28°18'E., 7.50 chs. distant. The line "CB" bears S.76°38'W. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 23.86 chs.

24.52 Point "A" of triangulation.

Line east crosses rugged sandstone spur, to pass which I offset as follows:

South, 6.00 chs., then on offset line

S.89°47'E., 19.65 chs., then

North, 6.00 chs., then

S.89°47'W., 2.80 chs. to true random line at

41.37 Set temp. $\frac{1}{4}$ sec. cor.; true point for cor. at 40.00 chs. falls on inaccessible ledge.

61.92 Line east falls over inaccessible sandstone ledges and cannot be chained; I therefore triangulate as follows:

Set flag "A" on

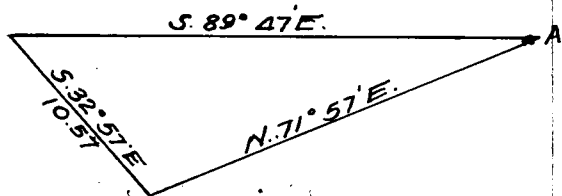
line S.89°47'E.;

then measure base

line S.32°57'E.,

10.57 chs. distant.

From S. end of base flag "A" bears N.71°57'E. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance on line	= 61.92 chs.
Distance by triangulation	= 32.59 "
Total distance	= 94.51 "
Distance by return measurement	= 14.49 "
	80.02 "

80.02 Intersect N. and S. line 26 lks. S. of the cor. of secs. 8, 9, 16, and 17.

Thence

N.89°58'W., on true line bet. secs. 8 and 17.

By triangulation over high inaccessible ledges.

18.10 Point of triangulation; thence over rough broken ground through short undergrowth.

19.90 Top of ledge rim, bears NW. and S.80°E.; descend abruptly.

25.50 Base of steep descent; thence over bench land.

35.85 Point of offset.

SUBDIVISION OF T. 27 S., R. 20 E.

Chains

38.65 Point for $\frac{1}{4}$ sec. cor. will fall on inaccessible ledge where cor. cannot be set; therefore, at this point Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

S8
WC $\frac{1}{4}$ S17

1926

from which

Sandstone ledge, marked $\frac{1}{4}$ X B0, bears S.20°W.

12 lks. distant.

Cor. stands on E. slope at base of sandstone spur projecting SW.

40.01 True point for $\frac{1}{4}$ sec. cor. on face of ledge on E. slope of spur.

Thence on offset line from 35.85' chs. point to pass spur.

South, 6.00 chs., then on offset line

N.89°58'W., 19.65 chs., then

North, 6.00 chs. to true line at

55.50 Point of triangulation; thence by triangulation.

55.55 Trail, bears N.30°W. to Goat Springs and S.30°E. to Mid-West No.2 Oil well; also top of ledge and rim of canyon, bears NW. and S.

65.00 Approximate distance to bottom of canyon, drains SW.

72.77 Top of ledge and west rim of canyon, bears N.40°E. and S.40°W.; gradually ascend.

79.36 Point of triangulation.

80.02 The cor. of secs. 7,8,17, and 18.

Land, rough and broken; general S. exposure and drainage

Soil, shallow sand, sandstone and limestone rock; 4th. rate.

No timber.

Undergrowth, shadscale, yellow top and black brush.

SURVEY OF T.27 S., R.20 E.

Chains

N.89°56'W., on a random line bet. secs. 7 and 18.

The line west passes over high ledge rims of the Colorado River Canyon which makes chaining impracticable; therefore, I triangulate as follows:

Set point "A" on line

to the west and

erect flag "B",

1.93 chs. S.89°56'

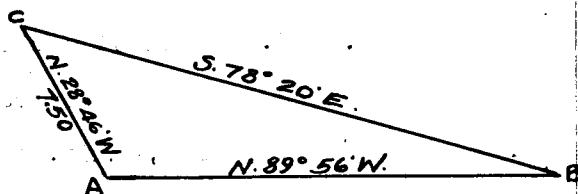
E. of the cor. of

secs. 7,8,17, and 18.

From "A" measure base line "AC", N.28°46'W., 7.50 chs.

distant. Line "CB" bears S.78°20'E. All bearings

taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation

= 28.39 chs.

Subtract

1.93 "

Distance on line to "A"

= 26.46 "

28.19 Set flag for future reference.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

Line west passes over high ledge rims of canyons over which it is impracticable to chain; therefore I

triangulate as follows:

Set point "A" on random

line on W. bdy. Tp. at

a point .07 chs. N. of

cor. secs. 7,12,13, and

18; then return to

28.19 chs. point from

which point a flag set

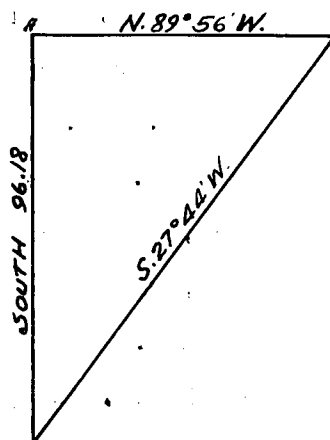
16.11 chs. S. of the

cor. of secs. 13,18,19 and 24 on the W. bdy. of the

Tp. bears S.27°44'W. Base line = 96.18 chs. All

bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 50.54 chs.



78.73 Intersect W. bdy. of the Tp. 7 lks. N. of the cor. of secs. 7,12,13, and 18 heretofore described.

SUBDIVISION OF T. 27 N., R. 20 E.

Chains

Thence

S.89°59'E., on true line bet. secs. 7 and 18.

Over rolling and broken bench land through short undergrowth and scattered juniper timber.

30.90 Top of high ledge and rim of canyon, bears N.75°W., S.75°E. for about 5 chs. thence S.; thence by triangulation across canyon.

38.73 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S7

S18
1926

Deposit a sandstone, 6x5x3 ins., marked with a cross (X) on one face at base of monument.

Ascend over broken ledges.

48.50 Top of ledge and rim, bears NW and SE.

50.54 Point of triangulation on spur, projects S.30°W.;

52.27 Point of triangulation on top of high ledge and rim of Colorado River Canyon, bears S.70°W., N.80°E. about 5 chs. then NE. Line east passes over high ledges, breaks of canyon and precipitous slopes impracticable to chain; thence by triangulation to sec. cor.

78.73 The cor. of secs. 7, 8, 17, and 18.

Land, rough and broken; general S. exposure and drainage. Soil, shallow sand, sandstone and limestone rock; 4th. rate.

No timber, except few juniper in W. portion of mile.

Undergrowth, black brush, yellow top, shadscale, mountain rush and bunch grass.

N.0°03'W., bet. secs. 7 and 8.

Over rough broken bench land through short undergrowth.

1.50 Trail, bears W. to Goat Springs and E. to Mid-West Oil Well No. 2.

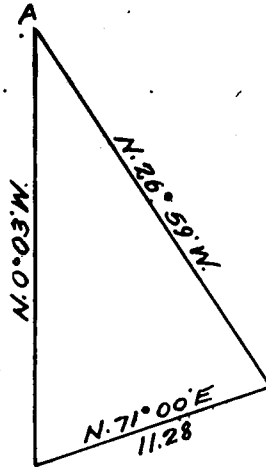
SUBDIVISION OF T.27 S., R.20 E.

Chains

7.50

Base of series of sandstone ledges, bears E. and W.; to determine distance to top, I find it necessary to triangulate as follows:

Set flag "A" on line to the N.; then return to cor. secs. 7, 8, 17, and 18 from which point measure base line N. 71° 00' E., 11.28 chs. distant. From E. end of base flag "A" bears N. 26° 59' W. All bearings



taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 24.72 chs.

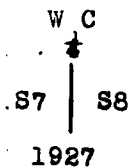
24.72

Spur, 650 ft. above sec. cor., projects SW.; descend abruptly over series of sandstone ledges bearing NE. and SW.

39.87

Point for $\frac{1}{4}$ sec. cor. will fall in wash, therefore perpetuate cor. on safe ground at this point as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked



40.00

Point for $\frac{1}{4}$ sec. cor. in wash, 30 lks. wide, 20 ft. deep in draw, 360 ft. below spur, drains NW.; ascend

43.79

Low spur, projects S. 85° W. Set flag for future reference. Descend.

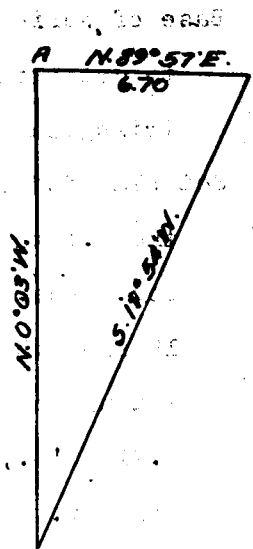
52.00

Approximate distance to wash, 30 lks. wide, 20 ft. deep, in draw, drains SW.; the line N. ascends high ledges up which I am unable to chain; therefore triangulate

Chains

as follows:

Set point "A" on line to the N.; also, from "A" measure base line N.89°57'E., 6.70 chs. distant. From E. end of base the flag at 43.79 chs. on line bet. secs. 7 and 8 bears S.11°54'W. All bearings taken by direct reading of the solar and angles checked by deflection.

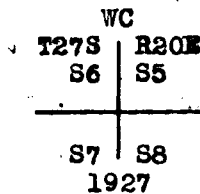


Distance by triangulation = 31.66 chs.

75.45 Point of triangulation on top of high spur, projects SW descend.

79.35 Point for cor. of secs. 5,6,7, and 8 will fall on a sandstone outcropping where cor. cannot be set; therefore at this point,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in a large mound of stone over a cross (X) cut in solid rock for witness cor. to the cor. of secs. 5,6,7, and 8, with brass cap marked



80.00 Point for cor. of secs. 5,6,7, and 8 on steep sandstone outcropping facing NW.

Land, rough and broken with general S. exposure and drainage to Colorado River.

Soil, shallow sand, sandstone and limestone rock; 4th. rate.

No timber.

SUBDIVISION OF T.27 S., R.20 E.

Chains

Undergrowth, short, scattered shadscale, black brush and bunch grass.

S.89°58'E., on a random line bet. smcs. 5 and 8 from true point for cor. of secs. 5,6,7, and 8.

- 10.56 The line east crosses canyon rimmed with high ledges over which it is impracticable to chain; therefore, I triangulate as follows:

Set point "A" on

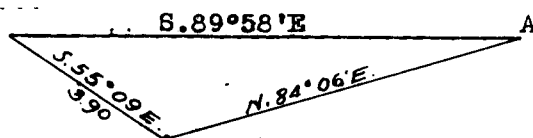
line to the

east; then measure

base line S.55°09'E.,

3.90 chs. distant. (unable to secure longer base)

From S. end of base "A" bears N.84°06'E. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance by triangulation = 24.63 chs.

- 35.19 Set temp. & sec. cor. at this point as true point for cor. at 40.00 chs. is inaccessible.

Line east ascends high ledges and breaks of mesa and in order to determine distance to top am compelled to triangulate as follows:

Set flag "A" on

random line to

the east and

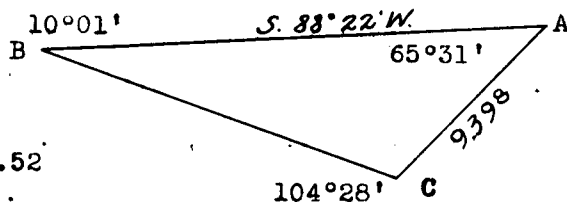
designate a flag 1.52

chs. S. of the true point

for cor. secs. 5,6,7, and 8

"B". From "A" flag "B" bears S.88°22'W.

With transit over "A" and telescope directed to "B" deflect an angle of 65°31' to the left and measure base line 9.398 chs. to point "C". The angles subtended at "C" and "B" determined by repetition are 104°28' and 10°01' respectively.



Distance line "AB" by triangulation = 52.32 chs., which reduced to cardinals is 52.30 chs. easting and 1.49

SUBDIVISION OF T.27 S. R.23 E.

Chains

am 1240

chs. northing.

52.30 Point of triangulation on rim of mesa.

54.73 Line east descends high ledges over which I cannot chain

triangulate as follows:

Set flag "A"

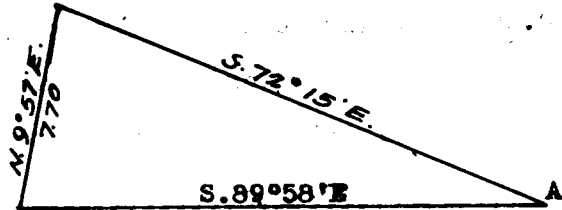
on random line to

the east; then

measure base

line, N.9°57'E.,

7.70 chs. distant.



From N. end of base flag "A" bears S.72°15'E. All bearings taken by direct reading of the solar and angles checked by deflection.

Distance by triangulation = 25.07 chs.

75.80 Intersect N. and S. line 16 lks. N. of the cor. of secs.

4,5,8, and 9.

Thence

N.89°51'W., on true line bet. secs. 5 and 8.

By triangulation. Ascend precipitous NE. talus slope void of vegetation.

25.07 Point of triangulation on top of ledge and rim of mesa,

1000 ft. above sec. cor., bears N. and S.; thence

across level top of mesa.

27.50 Point of triangulation on top of ledge and rim of mesa,

350 ft. high, bears N. and S.; thence by triangulation

over precipitous ledges.

39.90 Point for $\frac{1}{4}$ sec. cor. falls on inaccessible ledges where

cor. cannot be set.

44.61 Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in

the ground over a cross (X) cut in solid rock and 20

ins. in a mound of stone for witness cor. to the $\frac{1}{4}$

sec. cor., with brass cap marked

85

$\frac{1}{4}$ ————— VC

88

1927

all distances in feet

SUBDIVISION OF T.27 S., R.20 E.

Chains

Thence by triangulation across canyon about 20 chs. wide
and 200 ft. deep draining SW.

66.70 W. rim of canyon, bears NE. and SW.

69.24 Point of triangulation/^{2 lks. E.}on spur, projects SW.; descend
100 ft. to

79.80 The true point for cor. of secs. 5, 6, 7, and 8.

Land, rough and rugged bench, broken by ledges and cut
by canyons; general S. exposure and drainage.

Soil, shallow sand, clay, sandstone and limestone rock;
4th. rate.

No timber.

Undergrowth, scattered short shadscale, yellow top and
grass.

N. 89° 59' W., on a random line bet. secs. 6 and 7 from true
point for cor. of secs. 5, 6, 7, and 8.

Line west strikes numerous ledge points which makes
chaining impracticable; I therefore triangulate as
follows:

Set flag "A" on random

line to the west;

then measure base

line N. 0° 03' W., 37.07

chs. (see line bet.

secs. 5 and 6 for

determination of base)

From N. end of base

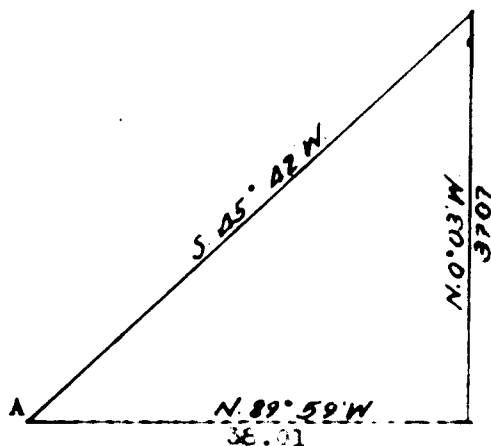
flag "A" bears S. 45° 42' W. All bearings taken by direct
reading of the solar and angles checked by deflection.

Distance by triangulation = 38.01 chs.

38.01 Set temp. & sec. cor. at this point as true point for

temp. & sec. cor. at 40.00 chs. falls on inaccessible
ledge.

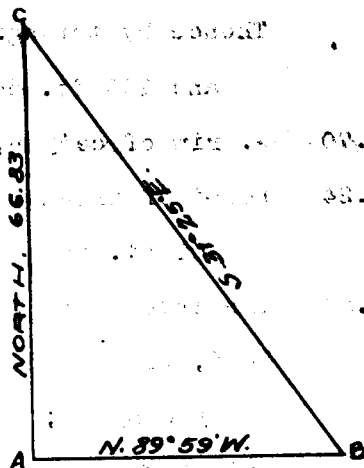
Line W. continues along rugged slope broken by ledges;
to determine distance ahead on line I make the



Chains

following triangulation.

Set point "A" on random line to the W., and erect flag "B" at this point; then from "A" measure base line "AC" North, 66.83 chs. The line "CB" bears S.31°25'E. All bearings taken by direct reading of the solar and angles checked by deflection.



Distance on line to "B"	= 38.01 chs.
Distance "BA" by triangulation	= <u>40.83</u> "
Distance to "A"	= 78.84 "
Distance by return measurement	= <u>.05</u> "
	78.79 "

78.79 Intersect W. bdy. of the Tp. 9 lks. N. of the cor. of secs. 1,6,7, and 12 heretofore described.

Thence

N.89°57'E., on true line bet. secs. 6 and 7.

By triangulation over rough, rugged bench land broken by ledges.

38.79 Point for $\frac{1}{4}$ sec. cor. falls on inaccessible ledge where cor. cannot be set.

40.78 Point of triangulation on spur, projects N.
Set an iron post, 3 ft. long, 1 in. in dia., 8 ins. in the ground on solid rock marked with a cross (X), and 22 ins. in a mound of stone for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap marked

WC $\frac{1}{4}$ S6
87
1927

Continue by triangulation to

78.79 The true point for the cor. of secs. 5,6,7, and 8.
Land, rough, rugged bench broken by high ledges.
Soil, shallow sand and sandstone rock; 4th. rate.

SUBDIVISION OF T.27 S., R.20 E.

Chains

No timber.

Undergrowth, short shadscale, black brush, yellow top
and bunch grass.

From true point for cor. of secs. 5, 6, 7, and 8,

N.0°03'W., on true line bet. secs. 5 and 6.

Line north ascends steep talus slope and over high ledges
which makes chaining impracticable; I therefore
triangulate as follows:

Set flag "A" on line

to the north and

flag "B" 1.90 chs.

S.0°03'E. of the

true point for cor.

secs. 5, 6, 7, and 8.

From "B" measure base

line, S.82°31'W., 8.00

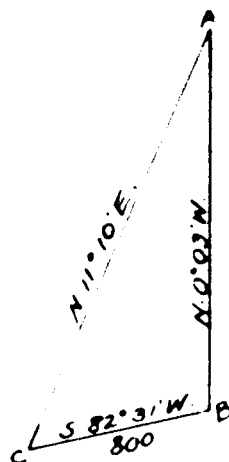
chs. distant to "C".

The line "CA" bears

N.11°10'E. All bearings taken by direct reading of
the solar and angles checked by deflection.

Distance by triangulation = 38.97 chs. from which

subtract 1.90 chs. gives 37.07 chs. to "A".



15.00 Approximate distance to draw, drains W.

37.07 Point of triangulation.

40.00 On spur, projects W.

Set an iron post, 3 ft. long, 1 in. in dia., 3 in.
in a mound of stone over a cross (X) cut in solid
rock for $\frac{1}{4}$ sec. cor., with brass cap marked

4
S6 | S5

1927

Descend over steep talus slope.

78.20 Wash, 20 lks. wide, 2 ft. deep, in draw, 335 ft. below

SUBDIVISION OF T.27 S., R.20 E.

Chains

86.93

spur, drains NW.; ascend 65 ft. to
Intersect N. bdy. of the Tp., 6.60 chs. east of the
witness cor. and 6.70 chs. east of the true point
for the $\frac{1}{4}$ sec. cor. S. bdy. sec. 31, T.26 S., R.20 E.,
which is an iron post, 1 in. in dia., firmly set,
and marked and witnessed as described in the field
notes of the survey of T.26 S., R.20 E.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins.
in a mound of stone over a cross (X) cut in solid rock
for closing cor. of secs. 5 and 6, T.27 S., R.20 E.,
with brass cap marked

T26SR20E
S31

S6	S5
T27S	R20E
CC	
1927	

Land, steep, rough talus slopes of high mesa; general
W. exposure and drainage.

Soil, shallow sand, heavy clay and rocky of sandstone
and limestone formation; 4th. rate.

No timber.

Undergrowth, scattered shadscale, black brush, yellow
top and grass.

Note: In some instances in this survey where natural
obstacles prevented the setting of the corner monu-
ments the required depth in the ground, or where the
cor. is established over a cross (+) cut in solid rock
and supported by a mound of stone, the usual accessory
to the cor. is omitted for the reason that suitable
material for its construction was not available.

ESTABLISHMENT QUARTER SECTION CORNERS
 BETWEEN CLOSING CORNERS NORTH BOUNDARY T.27 S., R.20 E.

At a point 7.41 chs. east of the cor. of secs. 35 and 36,
 T.26 S., R.20 E., which is an iron post, 2 ins. in
 dia., firmly set in large mound of stone over a cross
 (X) cut in solid rock, with brass cap marked

T26S	R20E
S35	S36

1926

Also,

Mid-point bet. the closing cor. of T.27 S., Rs. 20 and 21
 E. and the closing cor. of secs. 1 and 2, T.27 S.,
 R.20 E.,

Set an iron post, 3 ft. long, 1 in. in dia., 15 ins. in
 the ground over a cross (X) cut in solid rock and
 15 ins. in a mound of stone for $\frac{1}{4}$ sec. cor. N. bdy.
 sec. 1, T.27 S., R.20 E., with brass cap marked

$\frac{1}{4}$ S1
 1927

At a point 7.24 chs. east of the cor. of secs. 34 and 35,
 T.26 S., R.20 E., which is an iron post, 2 ins. in dia.,
 firmly set in the ground and mound of stone, with
 brass cap marked

T26S	R20E
S34	S35

1926

with marked stone deposited alongside cor.,

Also,

Mid-point bet. the closing cor. of secs. 1 and 2 and the
 closing cor. of secs. 2 and 3, T.27 S., R.20 E.,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
 a mound of stone over a cross (X) cut in solid rock
 for $\frac{1}{4}$ sec. cor. N. bdy. sec. 2, T.27 S., R.20 E., with
 brass cap marked

$\frac{1}{4}$ S2
 1927

ESTABLISHMENT OF QUARTER SECTION CORNERS
BETWEEN CLOSING CORNERS, NORTH POSTAGE T. 27 S., R. 20 E.

At a point 7.035 chs. east of the cor. of secs. 33 and 34
T. 26 S., R. 20 E., which is an iron post, 2 ins. in
dia., firmly set in the ground and mound of stone,
with brass cap marked

T26S	R20E
S33	S34

1926

with marked stone deposited alongside post,

Also,

Mid-point bet. the closing cor. of secs. 2 and 3 and the
closing cor. of secs. 3 and 4, T. 27 S., R. 20 E.,
Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in
a large mound of stone over a cross (X) cut in solid
rock for $\frac{1}{4}$ sec. cor. N. bdy. sec. 3, T. 27 S., R. 20 E.,
with brass cap marked

$\frac{1}{4}$ S3
1927

At a point, 6.65 chs. east of the cor. of secs. 32 and
33, T. 26 S., R. 20 E., which is an iron post, 2 ins. in
dia., firmly set in a mound of stone over a cross (X)
cut in solid rock, with brass cap marked

T26S	R20E
S32	S33

1926

Also,

Midpoint bet. the closing cor. of secs. 3 and 4 and the
closing cor. of secs. 4 and 5, T. 27 S., R. 20 E.,
Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in
the ground over a cross (X) cut in solid rock and
24 ins. in a mound of stone for $\frac{1}{4}$ sec. cor. N. bdy.
sec. 4, T. 27 S., R. 20 E., with brass cap marked

$\frac{1}{4}$ S4
1927

ESTABLISHMENT OF QUARTER SECTION CORNERS
BETWEEN CLOSING CORNERS, NORTH BOUNDARY T.27 S., R.20 E.

The mid-point bet. the closing cor. of secs. 4 and 5 and the closing cor. of secs. 5 and 6, T.27 S., R.20 E., and true point for the $\frac{1}{4}$ sec. cor. N. bdy. sec. 5, T.27 S., R.20 E., 6.605 chs. east of the true point for the cor. of secs. 31 and 32, T.26 S., R.20 E. falls on inaccessible W. slope; therefore, at a point 2.905 chs. east of the true cor. point and alongside the witness cor. to the cor. of secs. 31 and 32, T.26 S., R.20 E., 9.51 chs. east of its true position and which is an iron post, 2 ins. in dia., firmly set in a large mound of stone over a cross (X) cut in solid rock, with brass cap marked

T26S	R20E
S31	S32

WC

1926

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone for witness cor. to the $\frac{1}{4}$ sec. cor. N. bdy. sec. 5, with brass cap marked

$\frac{1}{4}$ S5 WC
1927

At a point 6.70 chs. east of the cor. of T.26 S., Rs. 19 and 20 E., which is an iron post, 3 ins. in dia., firmly set in a large mound of stone, and marked and witnessed as described in the field notes of the survey of T.26 S., R.20 E.,

Also, westing of 40.00 chs. from the closing cor. of secs. 5 and 6, T.27 S., R.20 E.,

Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in a mound of stone over a cross (X) cut in solid rock for $\frac{1}{4}$ sec. cor. N. bdy. sec. 6, T.27 S., R.20 E., with brass cap marked

$\frac{1}{4}$ S6
1927

MEANDERS OF THE LEFT BANK OF THE COLORADO RIVER,
DOWN STREAM

I commence at the true point for the meander cor. of
secs. 7 and 12 on the E. bdy. of the Tp. heretofore
described.

Thence with meander's in sec. 12.

Along rocky alluvial bank; willow undergrowth.

S. 65°00'W., 4.40 chs.

S. 47°15'W., 5.20 chs.

S. 56°30'W., 6.60 chs.

S. 55°45'W., 5.30 chs.

S. 43°15'W., 8.60 chs.

S. 42°15'W., 4.70 chs.

S. 44°30'W., 4.10 chs.

S. 34°30'W., 3.00 chs.

S. 29°45'W., 5.00 chs.

S. 31°00'W., 9.90 chs.

S. 24°30'W., 6.10 chs.

S. 12°00'W., 1.64 chs. To true point for meander cor.
secs. 12 and 13.

Land, level.

Soil, rocky and alluvial; 2nd. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 13.

Through willow undergrowth along rocky and alluvial
bank.

S. 12°00'W., 7.00 chs.

S. 9°30'W., 3.70 chs.

S. 3°15'W., 3.10 chs. At 2.10 chs. mouth of small water
course from the E.

S. 12°30'W., 4.70 chs.

S. 0°45'E., 7.50 chs.

S. 5°30'W., 1.30 chs.

MEANDERS, T.27 S., R.20 E.

S. 4°30'E., 8.20 chs.

S. 3°00'E., 5.85 chs.

S. 8°00'W., 2.20 chs.

S. 0°45'W., 5.05 chs.

S. 1°00'W., 5.00 chs.

S. 3°45'E., 5.00 chs.

S. 7°00'E., 5.00 chs.

S. 3°15'W., 6.90 chs.

S. 10°00'W., 4.60 chs. At 4.10 chs. mouth of wash from the E..

S. 22°30'W., 3.10 chs.

S. 10°00'W., 2.73 chs. To true point for meander cor. of secs. 13 and 24.

Land, level.

Soil, sandy alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 24.

Along rocky alluvial bank through willow undergrowth.

S. 9°00'W., 1.10 chs.

S. 2°00'E., 3.50 chs.

S. 0°30'W., 11.20 chs.

S. 12°00'W., 10.10 chs.

S. 34°00'W., 1.80 chs.

S. 21°00'W., 2.40 chs.

S. 43°15'W., 3.90 chs. At end of course mouth of wash from SE.

S. 25°45'W., 1.80 chs.

S. 34°30'W., 1.90 chs.

S. 36°45'W., 5.00 chs.

S. 40°30'W., 4.40 chs.

S. 51°15'W., 2.40 chs.

S. 75°30'W., 3.70 chs. At 3.50 chs. mouth of small wash from the S.

S. 70°30'W., 2.20 chs.

S. 27°00'W., 3.00 chs.

MEANDERS, T. 27 N., R. 20 E.

S.64°00'W., 6.40 chs.

S.82°00'W., 4.51 chs. At 1.80 chs. mouth of large wash from the S.

To true point for meander cor. of secs. 23 and 24.

Land, level.

Soil, sand alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 23..

Along rocky alluvial bank through dense undergrowth.

S.82°00'W., 1.60 chs.

S.76°00'W., 11.10 chs.

N.83°30'W., 9.50 chs.

N.64°00'W., 4.00 chs.

N.47°00'W., 2.70 chs.

N.35°15'W., 8.80 chs. At .25 chs. mouth of wash from the SW.

N.56°15'W., 9.60 chs.

N.61°30'W., 8.40 chs.

N.70°30'W., 6.00 chs.

N.80°15'W., 6.10 chs.

S.86°30'W., 2.55 chs.

S.60°00'W., 10.60 chs.

S.66°30'W., 5.00 chs.

S.69°00'W., 5.40 chs. To true point for meander cor. secs 22 and 23.

Land, level.

Soil, rocky and sandy alluvial; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 22

Along rocky alluvial bank through dense undergrowth.

S.74°00'W., 2.40 chs.

S.77°00'W., 9.20 chs.

S.70°00'W., 9.90 chs.

S. 73°15'W., 9.70 chs.

S. 75°15'W., 4.90 chs.

S. 86°45'W., 5.60 chs.

N. 65°00'W., 2.80 chs. At 1.40 chs. mouth of canyon from the S.; thence along rocky bank.

N. 32°00'W., 9.40 chs.

N. 34°00'W., 6.60 chs.

N. 23°00'W., 9.75 chs.

N. 2°30'E., 6.40 chs. Thence along sandy bank

N. 0°30'E., 6.10 chs.

N. 6°30'W., 3.80 chs.

N. 2°45'W., 10.50 chs. To true point for meander cor. secs. 15 and 22.

Land, level.

Soil, sandy alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 15.

Along sandy and rocky bank through dense undergrowth.

N. 0°15'W., 6.30 chs.

N. 7°00'W., 5.90 chs.

N. 2°00'W., 14.20 chs.

N. 3°00'W., 5.20 chs.

N. 18°00'W., 2.70 chs.

N. 25°00'W., 4.00 chs.

N. 30°45'W., 5.00 chs.

N. 36°45'W., 4.80 chs.

N. 60°30'W., 1.10 chs.

West, 5.20 chs.

S. 71°30'W., 3.90 chs.

S. 50°15'W., 6.73 chs. To true point for meander cor. of secs. 15 and 16.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

MEANDERS, T. 27 S. 12 E. 22 E.

Undergrowth, willow and iron brush. ... 01-27.2

Thence in sec. 16.

Along sandy and rocky bank through dense undergrowth.

S.58°45'W., 3.50 chs.

S.66°00'W., 4.50 chs.

S.57°30'W., 8.10 chs.

At end of course, Crow's nest, Midwest No.2 Oil Well, bears N.58°W.; house No.1 bears N.21°30'W.; house No.2 bears N.28°25'W., and house No.3 bears N.17°13'W.

S.68°30'W., 4.00 chs.

N.82°15'W., 18.50 chs.

At end of course, center line of Crow's nest, at No.2 Oil well bears N.18°31'E.; house No.1 bears N.61°37'E.; house No.2 bears N.58°17'E., and house No. 3 bears N.61°18'E.

N.86°45'W., 9.70 chs.

S.85°45'W., 3.60 chs.

S.79°45'W., 3.10 chs.

S.75°00'W., 5.20 chs.

S.67°00'W., 6.20 chs.

S.53°30'W., 6.30 chs.

S.35°00'W., 12.60 chs.

S.24°30'W., 10.85 chs.

To true point for meander cor. of secs. 16 and 17.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 17.

Along sandy and rocky bank through dense undergrowth.

S.27°24'W., 6.72 chs.

To true point for meander cor. secs. 17 and 20.

Land, level.

Soil, sandy and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow.

Thence in sec. 20

Along sandy and rocky bank through dense undergrowth.

S.30°30'W., 8.20 chs. End of course on top of limestone rim, 50 ft. above water.

S.51°00'W., 11.30 chs.

S.56°30'W., 7.00 chs.

S.73°30'W., 5.60 chs.

S.58°00'W., 7.00 chs.

S.57°00'W., 4.50 chs.

S.63°30'W., 4.70 chs.

S.71°00'W., 6.50 chs.

N.85°00'W., 4.80 chs.

N.82°15'W., 6.00 chs.

N.63°30'W., 6.40 chs.

N.46°30'W., 4.30 chs.

N.52°45'W., 3.70 chs.

N.36°45'W., 4.20 chs.

N.26°30'W., 4.50 chs.

N.24°30'W., 6.50 chs.

N.18°00'W., 5.20 chs.

North , 2.80 chs. To true point for meander cor. secs. 17 and 20.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 17.

Along sandy and rocky bank through dense undergrowth.

N. 6°15'W., 4.40 chs.

N. 0°45'E., 5.30 chs.

N. 3°00'W., 3.50 chs.

N. 2°45'E., 12.50 chs.

N. 9°15'E., 5.90 chs.

N. 1°30'E., 10.15 chs.

N. 3°15'W., 8.00 chs.

N. 1°45'W., 7.60 chs.

N. 4°45'W., 5.90 chs.

ON ... of ...

N. 27°15'W., 3.00 chs. To true point for meander cor. secs. 17 and 18.

Land, level.

Soil, sandy and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 18.

Along sandy and rocky bank through dense undergrowth.

N. 24°15'W., 4.20 chs.

N. 65°00'W., 3.50 chs.

S. 89°00'W., 5.10 chs.

S. 85°00'W., 8.60 chs.

S. 81°00'W., 10.00 chs.

S. 49°00'W., 5.00 chs.

S. 33°30'W., 5.40 chs.

S. 26°45'W., 10.70 chs.

S. 19°15'W., 4.00 chs.

S. 8°00'W., 8.00 chs.

S. 22°30'W., 10.10 chs.

S. 11°15'W., 6.20 chs.

S. 2°15'W., 5.60 chs.

S. 6°30'E., 4.80 chs.

S. 11°00'E., 5.80 chs.

S. 16°45'E., 3.40 chs.

S. 15°15'E., 5.00 chs. To true point for meander cor. secs. 18 and 19.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 19.

Along sandy and rocky bank through short undergrowth.

S. 26°15'E., 2.90 chs.

S.30°15'E., 7.00 chs.

S.33°15'E., 5.00 chs.

S.42°15'E., 8.80 chs.

S.46°00'E., 5.80 chs.

S.49°45'E., 8.90 chs.

S.53°45'E., 9.80 chs.

S.56°00'E., 7.60 chs.

S.65°00'E., 5.80 chs. To true point for meander cor.
secs. 19 and 20.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 20.

Along sandy and rocky bank through dense undergrowth.

S.63°45'E., 7.40 chs.

S.43°15'E., 3.30 chs.

S.62°30'E., 6.50 chs.

S.57°15'E., 7.80 chs.

S.58°30'E., 9.90 chs.

S.66°45'E., 8.00 chs. At end of course mouth of draw
from the N.

S.57°30'E., 4.80 chs.

S.65°45'E., 9.40 chs.

S.60°15'E., 9.90 chs.

S.58°30'E., 11.55 chs. To true point for meander cor. of
secs. 20 and 29.

Land, level.

Soil, sandy and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 29.

Along sandy and rocky bank through dense undergrowth.

S.55°56'E., 14.55 chs. To true point for meander cor.
of secs. 28 and 29.

Land, level.

MEANDERS, T. 27 S., R. 20 E.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 28.

Along sandy and rocky bank through dense undergrowth.

S.56°30'E., 7.90 chs. At 5.30 chs. mouth of canyon from NE.

S.58°00'E., 2.80 chs. Sandstone rim runs parallel to this course to the east.

S.36°45'E., 5.25 chs.

S.22°30'E., 11.20 chs.

S.30°00'E., 1.60 chs.

S.13°30'E., 3.90 chs.

S.23°00'E., 2.40 chs.

S. 9°30'E., 8.30 chs. At end of course mouth of canyon from the E.

S.16°00'W., 3.50 chs.

S.31°15'W., 6.60 chs.

S.33°30'W., 9.40 chs.

S.45°30'W., 4.80 chs.

S.43°00'W., 8.30 chs.

S.39°30'W., 2.80 chs. To true point for meander cor. of secs. 28 and 29.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 29.

Along sandy and rocky bank through dense undergrowth.

S.42°45'W., 10.22 chs. To true point for meander cor. of secs. 29 and 32.

Land, level.

Soil, sandy and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow.

Thence in sec. 32.

Along sandy and rocky bank through dense undergrowth.

S.42°30'W., 3.60 chs.

S.43°15'W., 7.70 chs.

S.42°45'W., 3.90 chs.

S.47°15'W., 4.70 chs.

S.45°30'W., 7.30 chs.

S.49°00'W., 5.40 chs.

S.65°45'W., 4.00 chs.

S.43°30'W., 6.50 chs.

S.44°45'W., 14.10 chs.

S.46°15'W., 4.00 chs.

S.25°00'W., 10.30 chs.

S.15°15'W., 6.30 chs.

S. 5°45'E., 5.70 chs.

S.31°45'E., 11.20 chs.

S.36°15'E., 9.00 chs. To true point for meander cor. secs. 5 and 32 on S. bdy. Tp. described in survey of T.28 S., R.20 E., book "B" this group.

Land, level.

Soil, sandy and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

MEANDERS RIGHT BANK OF THE COLORADO RIVER,

UP STREAM

From the true point for the meander cor. of secs. 5 and 32 on the S. bdy. of the Tp. described in the field notes of the survey of T.28 S., R.20 E., book "B" this group.

Thence with meanders in sec. 32.

Along sandy and rocky bank through dense undergrowth.

N.21°00'W., 5.90 chs.

N.41°30'W., 6.30 chs.

N.36°45'W., 4.50 chs.

MEANDERS; T. 27 S., R. 24 E.

N.15°30'W., 5.90 chs.
 N.25°00'W., 4.30 chs.
 N.13°15'E., 4.60 chs.
 N. 9°00'E., 4.10 chs.
 N.17°15'E., 1.70 chs.
 N.11°00'E., 2.20 chs.
 N.25°30'E., 1.60 chs.
 N.11°00'E., 2.70 chs.
 N.34°45'E., 1.80 chs.
 N.27°15'E., 4.40 chs.
 N.38°45'E., 8.00 chs.
 N.37°45'E., 4.70 chs.
 N.50°00'E., 12.80 chs.
 N.38°15'E., 3.60 chs.
 N.49°15'E., 3.30 chs.
 N.23°30'E., 2.30 chs.
 N.57°55'E., 17.50 chs. To true point for meander cor.
 of secs. 29 and 32.

Land; level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 29.

Along sandy and rocky bank through dense undergrowth.

N.56°30'E., 7.40 chs.

N.48°00'E., 19.40 chs.

N.43°30'E., 1.55 chs. To true point for meander cor. of
 secs. 28 and 29.

Land, level.

Soil, sandy and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

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Thence in sec. 28.

Along sandy and rocky bank through dense undergrowth.

N.33°45'E., 4.60 chs.

N.32°00'E., 3.50 chs.

N.10°00'E., 7.00 chs.

N. 6°45'E., 2.80 chs.

N. 4°00'W., 5.10 chs.

N.15°00'W., 3.20 chs.

N.20°00'W., 4.60 chs.

N.28°00'W., 6.90 chs. To true point for meander cor.
secs. 28 and 29.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 29.

Along sandy and rocky bank through dense undergrowth.

N.28°00'W., 2.10 chs.

N.40°00'W., 4.50 chs.

N.44°45'W., 4.90 chs.

N.52°45'W., 4.10 chs. At end of course mouth of draw
from the SW.

N.43°30'W., 3.40 chs.

N.54°45'W., 10.00 chs.

N.62°15'W., 4.30 chs.

N.59°30'W., 7.10 chs.

N.64°15'W., 4.05 chs. To true point for meander cor. of
secs. 20 and 29.

Land, level.

Soil, sandy and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 20

Along sandy and rocky bank through dense undergrowth.

N.67°30'W., 3.30 chs.

N.76°45'W., 2.50 chs. Thence in sec. 20
 N.79°00'W., 5.30 chs. Along sandy and rocky bank through
 N.62°00'W., 10.50 chs. dense undergrowth.
 N.68°30'W., 2.20 chs.
 N.65°00'W., 7.60 chs.
 N.59°30'W., 3.40 chs.
 N.63°45'W., 6.80 chs.
 N.50°15'W., 7.00 chs.
 N.52°30'W., 2.60 chs. To true point for meander cor.
 of secs. 19 and 20.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 19.

Along sandy and rocky bank through dense undergrowth.

N.44°45'W., 8.60 chs.
 N.46°30'W., 6.40 chs.
 N.53°45'W., 6.20 chs.
 N.49°00'W., 9.20 chs.
 N.52°00'W., 3.40 chs.
 N.44°15'W., 6.50 chs.
 N.40°00'W., 19.90 chs.
 N.44°15'W., 4.20 chs.
 N.31°30'W., 4.70 chs.
 N.17°30'W., 5.90 chs.
 N.23°00'W., 3.00 chs. To true point for meander cor.
 secs. 18 and 19.

Land, level.

Soil, sandy alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 18.

Along sandy and rocky bank through dense undergrowth.

MEANDERS, T. 27 S., R. 20 E.

N. 24°00'W.,	7.00 chs.	
N. 10°30'W.,	6.90 chs.	
N. 16°45'W.,	7.50 chs.	
N. 5°00'W.,	6.60 chs.	
N. 7°45'E.,	5.40 chs.	
N. 20°00'E.,	8.30 chs.	
N. 31°00'E.,	13.10 chs.	
N. 23°00'E.,	4.60 chs.	
N. 19°00'E.,	8.20 chs.	
N. 13°00'E.,	4.90 chs.	Along rocky bank. At end of course, wash in mouth of large canyon from the NW.
N. 34°00'E.,	4.10 chs.	Along alluvial bank.
N. 61°00'E.,	5.20 chs.	At 4.50 chs. ledge rim on E. side of canyon bearing NW. and N. 60°E., bears N. 50 lks. distant.
N. 66°00'E.,	5.50 chs.	
N. 80°00'E.,	2.10 chs.	
N. 69°45'E.,	3.60 chs.	
N. 83°15'E.,	4.80 chs.	
N. 78°00'E.,	4.70 chs.	
S. 81°00'E.,	10.30 chs.	
S. 77°30'E.,	4.80 chs.	To true point for meander cor. secs. 17 and 18.
Land, level.		
Soil, sandy, rocky and alluvial; 1st. to 4th. rates.		
No timber.		
Undergrowth, willow and iron brush.		
<hr/>		
Thence in sec. 17.		
Along sandy and rocky bank through dense undergrowth.		
S. 73°15'E.,	3.50 chs.	End of course at base of ledge rim on N. side of canyon.
N. 87°00'E.,	3.80 chs.	
S. 34°30'E.,	4.40 chs.	At 3.80 chs. wash in mouth of canyon from the NE.
S. 12°30'E.,	13.50 chs.	
S. 4°15'E.,	6.40 chs.	
S. 2°15'W.,	9.00 chs.	

MEANDERS, T. 27 S., R. 20 E.

S. 7°45'W., 11.60 chs. At .20 chs. mouth of wash from the E.
 S. 11°45'W., 5.20 chs.
 S. 11°00'W., 8.10 chs.
 S. 5°30'W., 12.20 chs.
 S. 4°45'E., 6.90 chs. To true point for meander cor. secs. 17 and 20.
 Land, level.
 Soil, sandy alluvial and rocky; 1st. to 4th. rates.
 No timber.
 Undergrowth, willow and iron brush.

Thence in sec. 20.
 Along sandy and rocky bank through dense undergrowth.
 S. 4°45'E., 1.90 chs.
 S. 15°15'E., 4.00 chs.
 S. 17°30'E., 2.60 chs.
 S. 24°30'E., 3.60 chs.
 S. 39°00'E., 6.10 chs.
 S. 50°00'E., 2.10 chs.
 S. 57°00'E., 3.60 chs.
 S. 77°00'E., 8.70 chs.
 N. 85°15'E., 3.70 chs.
 N. 80°30'E., 4.50 chs.
 N. 71°30'E., 6.20 chs.
 N. 63°30'E., 11.10 chs.
 N. 57°15'E., 4.20 chs.
 N. 48°30'E., 7.50 chs.
 N. 44°45'E., 5.60 chs.
 N. 34°45'E., 2.60 chs. To true point for meander cor. secs. 17 and 20.

Land, level.
 Soil, sandy alluvial and rocky; 1st. to 4th. rates.
 No timber.
 Undergrowth, willow and iron brush.

Thence in sec. 20.
 Along sandy and rocky bank through dense undergrowth.

MEANDERS, T.27 S., R.20 E.

Thence in sec. 17.

Along sandy alluvial bank through dense undergrowth.

N.35°00'E., 11.50 chs.

N.27°00'E., 4.80 chs.

N.32°00'E., 5.70 chs.

N.16°45'E., 4.70 chs. To true point for meander cor.
secs. 16 and 17.

Land, level.

Soil, sandy alluvial and some rock; 1st. and 2nd. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 16

Along sandy alluvial and rocky bank through willow under-
growth.

N.36°30'E., .50 chs.

N.36°00'E., 3.10 chs.

N.32°30'E., 3.80 chs.

N.45°30'E., 11.40 chs.

N.58°30'E., 5.30 chs.

N.66°15'E., 5.90 chs.

S.88°45'E., 19.50 chs.

S.86°45'E., 13.30 chs. At 9.50 chs. is the temporary
dowk at Mid-west No.2 Oil Well.

N.83°30'E., 7.00 chs.

N.81°00'E., 3.40 chs. End of course at derrick at
Mid-west No.2 Oil Well.

N.72°30'E., 6.10 chs.

N.49°00'E., 8.80 chs.

N.59°30'E., 2.50 chs. To true point for meander cor.
secs. 15 and 16.

Land, level.

Soil, sandy alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 15.

Along sandy and rocky bank through dense undergrowth.

MEANDERS, 1:27 S., 1:20 E.

N.60°00'E., 1.20 chs. Thence in sec. 15
 N.84°30'E., 2.00 chs. At 1.20 chs. corner of wash from
 the N.
 N.76°30'E., 4.70 chs.
 N.80°45'E., 4.70 chs.
 S.89°30'E., 2.70 chs.
 S.73°00'E., 2.10 chs.
 S.58°30'E., 5.70 chs.
 S.43°00'E., 6.10 chs.
 S.31°45'E., 6.80 chs.
 S.18°30'E., 12.40 chs.
 S.14°30'E., 6.90 chs.
 S. 0°15'W., 7.80 chs.
 S. 3°30'E., 3.90 chs.
 S. 9°30'W., 10.40 chs. To true point for meander cor.
 secs. 15 and 22.
 Land, level.
 Soil, sandy alluvial and rocky; 1st. to 4th. rates.
 No timber.
 Undergrowth, willow and iron brush.
 Thence in sec. 22
 Along sandy and rocky bank through dense undergrowth.
 S. 9°30'W., 12.50 chs.
 S. 0°15'E., 5.25 chs.
 S. 9°00'E., 3.00 chs.
 S.14°30'E., 2.80 chs.
 S.17°45'E., 3.80 chs.
 S.24°00'E., 2.00 chs.
 S.36°45'E., 1.30 chs.
 S.52°00'E., 2.80 chs.
 S.55°30'E., 1.20 chs.
 S.72°00'E., 2.80 chs.
 S.70°00'E., 2.30 chs.
 S.81°30'E., 2.50 chs.
 S.84°00'E., 7.30 chs.
 N.85°45'E., 7.30 chs.

MEANDERS, T.27 S., R.20 E.

N.77°00'E., 8.70 chs.

N.72°15'E., 8.20 chs.

N.60°30'E., 4.00 chs. To true point meander cor. of
secs. 22 and 23.

Land, level.

Soil, sandy alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 23.

Along sandy and rocky bank through dense undergrowth.

N.73°30'E., 2.90 chs. At end of course small wash in
mouth of canyon from the N.

N.75°45'E., 16.20 chs.

N.69°30'E., 6.50 chs.

N.85°30'E., 6.60 chs.

S.77°15'E., 4.30 chs.

S.65°00'E., 4.60 chs.

S.43°30'E., 5.50 chs.

S.39°15'E., 8.10 chs.

S.40°15'E., 3.50 chs.

S.45°00'E., 11.50 chs.

S.68°45'E., 3.70 chs.

N.85°15'E., 8.30 chs.

N.74°45'E., 1.90 chs.

N.67°00'E., 8.30 chs. To true point for meander cor.
secs. 23 and 24.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 24.

Along sandy and rocky bank through dense undergrowth.

N.55°00'E., 4.60 chs.

N.46°00'E., 4.90 chs.

N.40°30'E., 6.30 chs.

N. 25°45'E., 6.20 chs.

N. 29°15'E., 5.80 chs.

N. 19°00'E., 10.40 chs. At 7.50 chs. mouth of wash from the W.

N. 5°30'E., 7.80 chs.

North , 2.20 chs. To true point for meander cor. secs. 13 and 24.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 13.

Along sandy and rocky bank through dense undergrowth.

N. 8°45'E., 6.90 chs.

N. 7°00'E., 5.50 chs.

N. 16°45'E., 5.60 chs.

N. 5°30'W., 3.90 chs. At end of course is mouth of wash from the W.

N. 4°30'E., 8.30 chs.

N. 10°00'E., 5.10 chs.

N. 4°45'E., 9.60 chs.

N. 12°00'W., 3.50 chs.

N. 7°45'E., 10.60 chs.

N. 3°00'E., 9.30 chs.

N. 12°00'E., 12.10 chs.

N. 8°15'E., .60 chs. To true point meander cor. secs. 12 and 13.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

Thence in sec. 12.

Along sandy and rocky bank through dense undergrowth.

N. 8°15'E., 7.80 chs. At 7.10 chs. mouth of wash from the W.

N. 27°00'E., 7.50 chs.

MEANDERS, T.27 S., R.20 E.

N.17°00'E., 2.80 chs.

N.13°00'E., 2.10 chs.

N. 7°00'E., 6.20 chs.

N.39°45'E., 6.00 chs.

At 1.80 chs. mouth of wash from the NW.
At 4.30 chs. trail, bears NW. and N.39°E.

N.49°30'E., 4.10 chs.

N.55°30'E., 5.00 chs.

N.57°45'E., 10.00 chs.

N.62°30'E., 5.00 chs.

N.59°30'E., 6.80 chs.

N.58°30'E., 7.20 chs.

N.46°00'E., 7.70 chs.

N.42°15'E., 3.10 chs.

To true point for meander cor. secs. 7 and 12 on the E. bdy. of the Tp.

Land, level.

Soil, sandy, alluvial and rocky; 1st. to 4th. rates.

No timber.

Undergrowth, willow and iron brush.

BOUNDARIES OF T.27 S., R.20 E.

LATITUDES, DEPARTURES AND CLOSING ERRORS.

Lines designated	True bearing	Dist-ances.	Latitudes		Departures	
			N	S	E	W
			chs	chs	chs	chs
W.bdy.T27SR20E	South	486.86	.....	486.86	.....	.....
S.bdy.T27SR20E	S.89°55'E.	479.34	.....	1.70	479.34	.....
E.bdy.T.27SR20E	North	487.75	487.75	.....	.....	.....
N.bdy.T27SR20E	West	479.37	.....	.....	.....	479.37
Convergency			.....	.....	.....	.57
Totals			487.75	487.56	479.34	479.94
			487.56			
Error in latitude=			.19			479.34
Error in departure =						.60

GENERAL DESCRIPTION

The land in this township is all rough and broken consisting of the breaks of the Colorado River Canyon. The Colorado River enters the township in section 12 and flows in a southerly direction leaving the township in section 32. The breaks of the Colorado River consists rough bench land broken by ledges and cut by impassable canyons all draining into the Colorado River. Hatch Point in the southeast corner and the High Mesa in the north west portion are mesa land rimmed by vertical walls of sandstone 200 to 300 ft. high. The top of the benches are rolling with precipitous slopes that break into the Colorado River.

The soil along the Colorado River is a sandy alluvial and mixed with considerable rock of sandstone and limestone formation. The soil of the remaining portion of the township is generally a shallow sand or clay mixed with sandstone and lies on bedrock which is close to the surface and in many places exposed.

A scrub growth of pinon and juniper timber is found on the mesa land, and a few cottonwood and boxelder grows along the banks of the Colorado River. Short desert brush consisting of shadscale, blackbrush, mountain rush, yellow top and native grasses grow throughout the township and afford browse for sheep and cattle during winter months. Along the Colorado River dense willow, iron brush, greasewood and poison oak grows abundantly. The Colorado River is the only water in the township. There are no settlers in the township and Moab Utah is the nearest post-office, about 20 miles distant.

No surface indication of mineral or oil were noted during the survey of the township. A test oil well locally known as Staffer No. 2 was driven in the $\text{SW}\frac{1}{4}$ of $\text{R}\frac{1}{2}$ of sec. 16.

No magnetic declination was taken on account of defective needles.

CADASTRAL ENGINEER
CERTIFICATE OF UNITED STATES SURVEYORS

We, Carl S. Swanholm, U.S. Cadastral Engineer, Elliot Bird, Chas. F. Moore, and Robert C. Yundt, U.S. Surveyors hereby certify upon honor that, in pursu-

of special instructions received from the District Cadastral Engineer for Utah

bearing date of the 8th day of March, 1926, ~~we~~ have well, faithfully, and tru-

in ~~our~~ own proper persons and in strict conformity with said instructions, the Manual of Surveying Instru-

tions, and the laws of the United States, surveyed all those parts or portions of the east and

west boundaries, establishment of quarter-section corners between

closing corners on the north boundary, and survey of the subdivi-

and meanders in T.27 S., R.20 E.

of the Salt Lake Bas

and Meridian, in the State of Utah, which are represented

the foregoing field notes as having been executed by us and under ~~our~~ direction; and that all the corners

said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instru-

tions, and the special written instructions of the District Cadastral Engineer for Utah

and in the specific manner described in the field notes, and that the foregoing are the original field notes

such survey. Certified to at:

Reno, Nevada January 19, 1930.

Salt Lake City, Utah, Jan. 16, 1930

Salt Lake City, Utah, Jan. 16, 1930

Salt Lake City, Utah, Jan. 16, 1930 APPROVAL.

Carl S. Swanholm
U.S. Cadastral Engineer

Elliot Bird
U.S. Surveyor

Chas. F. Moore
U.S. Surveyor.

Robert C. Yundt
U.S. Surveyor.

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colorado Jul 15 1932, 19

The foregoing field notes of the survey of the east and west boundaries,

establishment of quarter-section corners between closing corners

on the north boundary, and the survey of the subdivision and

meanders in T. 27 S. R. 20 E.

executed by Carl S. Swanholm, U.S. Cadastral Engineer, Chas. F. Moore,

Elliot Bird and Robert C. Yundt, U.S. Surveyors.

under his special instructions dated March 5, 1926, having b

critically examined, and the necessary corrections and explanations made, the said field notes, and the surv

they describe, are hereby approved.

Samuel Johnson
U. S. Supervisor of Surveys

I certify that the foregoing transcript of the field notes of the above described surveys in

, has been correctly copied from the original notes on file in this office.

U. S. Supervisor of Surveys

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MAR 25 1932
 Department Of The Interior
 Public Survey Office
 Salt Lake City, Utah

BOOK A-496

FIELD NOTES

OF ~~THE SURVEY OF THE~~

DEPENDENT RESURVEY OF

PORTION OF SOUTH BOUNDARY,

PORTION OF SUBDIVISIONS, AND

PORTION OF MEANDER LINES

OF

T. 6 S., R. 2 E.,

Of the Salt Lake Base and Meridian,

In the State of Utah

EXECUTED BY

Ralph Gentry

In the capacity of U. S. ~~Surveyor~~ ^{Cadastral Engineer}, under Special Instructions dated July 10, 1931, issued by the District Cadastral Engineer to govern surveys included in Group No. 240, which were approved by the Commissioner of the General Land Office, July 20, 1931, and Assignment Instructions dated Sept. 17, 1931

Survey commenced October 13, 1931

Survey completed October 27, 1931

BOOK A-106

INDEX DIAGRAM.

Township 6 South, Range 2 East

6	5	4	3	2	1
7	8	9	10	11	12
21					
18 26 20 17	16	15	14	13	
19 18					
25 16 20 10 21	22	23	24		
14 23 11					
13 22 8 26	27	28	29		
30	29	8	26	27	28
	7	4			
31	32	33	34	35	36
	3	3	2		

DEPENDENT RESURVEY OF PORTION OF T. 6 S., R. 2 E.

Chains

The resurvey was executed with a Buff and Buff solar transit No. 8028, property of the General Land Office. The instrument has a full vertical circle and is equipped with the Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other and reads to single minutes of arc which is also the least count of the verniers of the vertical circle, and the latitude and declination arcs. The instrument was in good condition and was approved for use in this survey, conditional upon satisfactory field tests, by the district cadastral engineer for Utah, in assignment instructions dated September 17, 1931. I examine all the instrumental adjustments before making the field tests hereinafter recorded.

The directions of the lines resurveyed were determined by deflection from meridians determined by observations made on Polaris and checked by the solar method. The measurements were made with a Lallie steel tape, 5 chains in length, graduated every link for first 100 links, and the balance at intervals of 10 links. The tape was tested by comparison with a Lufkin standard steel tape 1 chain long and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained by a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position for the SE. cor. of sec. 33, T. 6 S., R. 2 E., as follows:- latitude $40^{\circ} 15' N.$, and longitude $112^{\circ} 04' 18'' W.$

Oct. 13, 1931, at the cor. of secs. 20, 21, 28 and 29, T. 6 S., R. 2 E., at 6h 15.5m p.m., l.m.t., or 6h 43.9m p.m., by my watch, which reads correct 105th meridian time as determined by comparison with a Western Union clock at Prove, Utah on this date, I observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a peg driven firmly in the ground, 10 chs. N.

Oct. 14, I lay off the azimuth of Polaris, $1^{\circ} 23' 30''$, to the west, and note a tree on ridge about 12 miles N., in the meridian thus determined.

In order to verify the latitude of this sec. cor. and the reading of my watch, I make a meridian observation of the sun, observing simultaneously the altitude of the sun's lower limb and the transit of the sun's west limb, reversing the telescope and observing simultaneously the altitude of the sun's upper limb and the transit of the sun's east limb as follows:-

Mean observed altitude	41° 44'
Reduced latitude	40° 16' 49"
Mean watch time of observation	12h 14m 24s
Watch fast of local mean time	0h 28m 14s
Same by comparison with Western Union clock	28m 22s

Every hour from 8 to 10.30 a.m. and from 1.30 p.m. to 4 p.m., I make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error of less than 1'.

I repeat the tests of the arcs daily by noon observations, and verify the meridional indications at frequent intervals throughout the resurvey.

DEPENDENT RESURVEY OF PORTION OF T. 6 S., R. 2 E.

Chains

The observed magnetic declination is 13°00' East of true. The declination in 1874 was 12°00' East of true. The declination in 1931 was 13°00' East of true. The declination in 1931 was 13°00' East of true.

DEPENDENT RESURVEY OF PORTION OF SOUTH BOUNDARY OF T. 6 S., R. 2 E.

Reestablishment of surveys executed by A. J. Stewart Jr., U.S. deputy surveyor, in 1874.

From the cor. of secs. 3, 4, 33 and 34, on S. bdy. of T. 6 S., R. 2 E. is a concrete block 18 x 18 x 18 ins. set flush with the ground, with a cobble stone, 6 x 5 x 5 ins. above center marked with 2 notches on E., and 1 notch on W. face.

The records of the county surveyor of Utah County show that this sec. cor. was remonumented by the county surveyor, the original cor. monument being set in the block of concrete at the original position of the sec. cor.

I witness this sec. cor. as follows:- S. 2 lks. dist. from center of cobble stone in center of concrete block.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground for witness cor. to cor. of secs. 3, 4, 33 and 34 with brass cap marked

T6S	R2E
333	334
S 4	S 3

near T7S

1931

Thence from true cor. point, West, along S. bdy. of sec. 33 on blank line.

7.00 No evidence of meander cor. established by C.L. Craig, U.S. deputy surveyor in 1856 could be found.

40.00 No evidence of $\frac{1}{4}$ sec. cor. established by A. J. Stewart Jr. in 1874 could be found.

80.00 No evidence of cor. of secs. 32 and 33, established by A. J. Stewart Jr. U.S. deputy surveyor in 1874 could be found.

I restore cor. for secs. 32 and 33, at this point, as follows:-

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground with brass cap marked

T6S	R2E
332	333

Deposit a sandstone, 8 x 8 x 6 ins. marked with a cross (+) at base of post.

The claimants of the land adjoining this sec. cor. were consulted and they were unable to furnish any information relative to the original position of the sec. cor.

From the restored cor. of secs. 32 and 33.

DEPENDENT RESURVEY OF
PORTION OF SOUTH BOUNDARY OF T. 6 S., R. 2 E.

Chains

Thence

West, along S. bdy. of sec. 32.

Over nearly level land, through dense growth of grass.

1.00 Enter dense growth of willows, brs. N. and S.

2.50 Leave willows, enter heavy sandy soil void of vegetation, brs. N. and S.

5.00 Record distance for meander cor. on S. bdy. sec. 32, established by A. J. Stewart Jr. U.S. deputy surveyor in 1874, no evidence of which could be found.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for restored meander cor. sec. 32, with brass cap marked

S T6S
MC R2E
S 32

1931

Deposit a sandstone, 8 x 7 x 7 ins., marked with a cross (+), at base of post.

This cor. stands on low bank formed by action of water at mean high water mark, brs. N. 30° E., and S. 30° W.

The edge of the water of Utah Lake which is at extreme low level, brs. west 13.00 chs. distant.

Land; nearly level.

Soil, heavy, loose sandy loam; 1st and 2nd rate.

No timber.

Undergrowth, dense willows and dense growth of grass.

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Reestablishment of surveys executed by A. J. Stewart Jr., U. S. deputy surveyor in 1874.

From the restored cor. of secs. 32 and 33, on S. bdy. of Tp., thence

North, bet. secs. 32 and 33.

Over nearly level land, through heavy growth of grass.

7.00 Enter dense willows, brs. NE. and S. 20° W.

9.60 Record distance for meander cor. of secs. 32 and 33, established by A. J. Stewart Jr. U.S. deputy surveyor in 1874, no evidence of which could be found.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for restored meander cor. of secs. 32 and 33, with brass cap marked

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Sheet 22

Sheet 22



1931

Deposit a sandstone, 10 x 9 x 8 ins., marked with a cross (+) at base of post.

From this cor. the mean high water-mark of Utah Lake, a low bank formed by the water and at edge of vegetation intersects. NW. and SW. brs. north 6.80 chs. distant, and the edge of water of Utah Lake which is at extreme low level, brs. N. 28.00 chs. distant.

Land, nearly level.

Soil, heavy sandy loam; 1st rate.

No timber.

Undergrowth, dense willows on portion of line; heavy growth of grass.

Reestablishment of surveys executed by C. L. Craig, U. S. deputy surveyor in 1956, and subsequently resurveyed by A. J. Stewart Jr. U. S. deputy surveyor in 1974.

From the cor. of secs. 20, 21, 28 and 29, hereinafter described, thence

South, bet. secs. 28 and 29 on blank line.

4.01 Set 12 line, 1. of the cor. of sec. 20. The corner of this half mile therefore is S. 0° 44'E., and the distance is 40.03 chs.

From sec. cor. continue south, with continuous measurement.

4.02 Set temp. cor. for secs. 29, 29, 32 and 33. No evidence of the original cor. could be found.

From temp. cor. of secs. 29, 29, 32 and 33.

West, bet. secs. 29 and 32 on blank line.

4.03 Set temp. meander cor. No evidence of the original meander cor. could be found.

Return to temp. cor. of secs. 29, 29, 32 and 33; then

South, bet. secs. 32 and 33 on blank line.

4.04 Set temp. meander cor. No evidence of original meander cor. could be found.

Return to temp. cor. of secs. 29, 29, 32 and 33; then

West, bet. secs. 29 and 33, on blank line.

4.05 Set 12 line, 1. of the meander cor. of secs. 28 and 33 hereinafter described.

4.06 Set 12 line, 1. of the cor. of secs. 27, 28, 33 and 34 which is a concrete block, 18 x 18 x 18 ins., set 6 in. below surface of ground, with a cobble stone, 4 x 4 x 1 in. exposed in center. No marks visible on cobble stone.

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Chains

The records of the county surveyor of Utah County show that this sec. cor. was remonumented by the county surveyor at point stone monument was found, which position agrees with ties made by the D. & R. G. W. R.R. Co. when the cor. monument was found in place.

I check the position of this sec. cor. with data furnished me by the D. & R. G. W. Ry. Co., and find that the position of the cor. agrees with the ties of railroad Co.

The course of the line bet. cor. of secs. 27, 28, 33 and 34, and the meander cor. of secs. 28 and 33, therefore is N. 89° 21' E., and the distance is 59.97 chs.

Reestablishing the cor. of secs. 28, 29, 32 and 33 at record distance in southing from $\frac{1}{4}$ sec. cor. bet. secs. 28 and 29, and at record distance in westing from the meander cor. of secs. 28 and 33, the course of the line between meander cor. of secs. 28 and 33, and the cor. of secs. 28, 29, 32 and 33, therefore is N. 89° 02' W., and the distance is 21.40 chs., and the course of the line bet. the cor. of secs. 28, 29, 32 and 33 and the $\frac{1}{4}$ sec. cor. bet. secs. 28 and 29, therefore is N. 1° 22' W., and the distance is 40.01 chs.

From the cor. of secs. 27, 28, 33 and 34

Thence

S. 89° 21' W., bet. secs. 28 and 33.

Along road, 50 lks. wide, brs. E. and W.; cultivated land to the N. and S. of road.

- 9.40 Electric power line, brs. N. 35° W., and S. 35° E.
- 9.80 Concrete highway, 18 ft. wide, brs. N. 35° W., and S. 35° E.
- 10.30 Telephone line, brs. N. 35° W., and S. 35° E.
- 10.45 Barbed wire fence, brs. N. 35° W., and S. 35° E.; S. 35° E., 26 lks. dist. is cor. of barbed wire fence bearing W.; enter land used as pasture; cultivated land to S.
- 20.50 Barbed wire fence, brs. N. and S.
- 24.65 Barbed wire fence, brs. N. and S.
- 31.40 Barbed wire fence along edge of swamp, brs. N. and S.; enter swamp.
- 33.96 Barbed wire fence, brs. N. and S.; leave swamp, brs. NE. and SW.; enter undergrowth of sagebrush and greasewood.
- 40.51 Fall 68 lks. S. of an iron post, 1 in. diam., extending 12 ins. above the ground with brass cap marked

S 28

$\frac{1}{4}$ ———
= S 33

Post is set alongside of a cobble stone, 8 x 7 x 4 ins. above the ground and marked $\frac{1}{4}$ on N. face.

From the records of the county surveyor, Utah County, this $\frac{1}{4}$ sec. cor. was reestablished by the county surveyor on line bet. the cor. of secs. 27, 28, 33 and 34, and the meander cor. of secs. 28 and 33, and at a distance from the cor. of secs. 27, 28, 33 and 34 as determined

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Chains

by topography.

- 44.60 Edge of swamp, brs. NE. and SW.; thence across swamp through dense tules about 5 ft. high.
- 54.00 Leave swamp, brs. NE. and SW.; enter rolling land.
- 55.50 Road, brs. W. and NE.; cor. of fence bearing W. and NE. 13 lks. N. of line; thence along lane.
- 59.90 Gate at end of lane and in fence line, brs. N. 30°W., and S. 30°E.; cor. of fence bearing E 13 lks. S. of line and cor. of fence bearing E. 13 lks. N. of line.
- 59.97 The meander cor. of secs. 28 and 33, established by C. I. Craig, U.S. deputy surveyor in 1856, and reestablished by A. J. Stewart Jr. U.S. deputy surveyor in 1874, which is a cobble stone, 12 x 10 x 6 ins., marked with a cross (+) on top. Top of stone was 2 ins. below surface of ground. A decayed stump of post was found alongside of stone.

Alongside of cor.

Set an iron post, 3 ft. long, 1 in. diam., 36 ins. in the ground with brass cap marked

MC / T6S.
S28
S33
R2E

1931

Cor. stands on bank about 3 ft. high, brs. NW. and SE.

From this meander cor. an iron post, 2 ins. diam., extending 6 ins. above the ground with brass cap marked

MC / S28
S33

brs. N. 8°42'W., 1.06

chs. dist:

From the records of county surveyor, Utah County, this cor. post was established by the county surveyor.

Reestablishment of surveys executed by A.J. Stewart Jr. U.S. deputy surveyor in 1874.

From the meander cor. of secs. 28 and 33, continue

N. 89° 02'W., bet. secs. 28 and 33, with continuous measurement.

Enter swamp land with medium growth of grass, brs. N. 30° W., and S. 30°E.

- 73.40 Leave swamp land, brs. N. and S.; enter loose sandy loam.

- 79.70 Barbed wire fence, brs. N. 15°W.; enter cultivated land.

- 81.37 Point at record distance from meander cor. of secs. 28 and 33, and from $\frac{1}{4}$ sec. cor. bet. secs. 28 and 29.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground for reestablished cor. of secs. 28, 29, 32 and 33, with brass cap marked

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Chains

T6S	R2E
S29	S28
S32	S33

1931 deposit a sand-stone, 6 x 5 x 4 ins., marked with a X at base of post.

Land, gently rolling; drainage W.

Soil, deep, rich sandy and clay loam; 1st rate.

Most of land E. of meander cor. is under cultivation and land to the W. is mostly swamp with a medium growth of grass and tules.

South, bet. secs. 32 and 33.

Over gently rolling land which is under cultivation.

1.12 Barbed wire fence, brs. N. 77 $\frac{1}{2}$ ° W., and S. 77 $\frac{1}{2}$ ° E.; leave cultivated land, enter medium growth of grass and cockle-bur weeds.

6.90 Record distance for meander cor. of secs. 32 and 33, established by A. J. Stewart Jr., U.S. deputy surveyor in 1874.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for restored meander cor. of secs. 32 and 33, with brass cap marked.

T6S	R2E
S32	S33

MC

S

1931 deposit a sand-stone, 10 x 6 x 5 ins., marked with a X at base of post.

This cor. stands on small bank formed by water at mean high water mark of Utah Lake, brs. NW. and SE.

From this cor. the edge of water of Utah Lake which is at extreme low level, brs. S. 19.00 chs. distant.

Land, gently rolling,

Soil, loose sandy loam; 1st rate.

Medium growth of grass and cockle-bur.

From the restored cor. of secs. 28, 29, 32 and 33.

West, bet. secs. 29 and 32.

Over gently rolling land, which is under cultivation.

5.00 Barbed wire fence, brs. N. 77 $\frac{1}{2}$ ° W., and S. 77 $\frac{1}{2}$ ° E.; leave cultivated land, enter medium growth of grass and cockle-bur weeds.

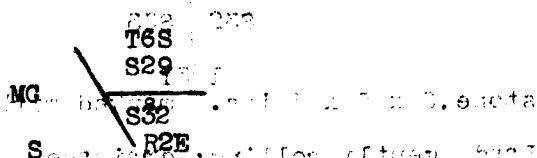
8.50 Record distance for meander cor. of secs. 29 and 32, established by A.J. Stewart Jr., U. S. deputy surveyor in 1874.

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Chains

an lads

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for restored meander cor. of secs. 29 and 32, with brass cap marked



1931 deposit a sandstone, 10 x 8 x 3 ins., marked with a X at base of post.

This cor. stands on small bank at mean high water mark of Utah Lake, brs. NW. and SE.

From this cor. the edge of water of Utah Lake which is at an extreme low level, brs. W. 23.00 chs. distant.

Land, gently rolling.

Soil, loose sandy loam; 1st rate.

Medium growth of grass and cockle-bur.

From the restored cor. of secs. 28, 29, 32 and 33. N. 1° 22' W., bet. secs. 28 and 29.

Over gently rolling land, which is under cultivation.

6.30 Barbed wire fence, brs. N. 16° W., and S. 15° E.; leave cultivated land, enter heavy growth of grass.

14.00 Edge of swamp, brs. NW. and SE.; enter medium growth of tules from 3 to 5 ft. high.

15.00 Stream of clear water, 30 lks. wide, drains NW.

32.00 Edge of slough or pond of water, brs. NE. and SW.; thence across slough.

35.00 Edge of slough, brs. NE. and SW.; continue over swamp.

36.70 Leave swamp, enter cultivated land, brs. NE. and SW.

40.01 The $\frac{1}{4}$ sec. cor., and meander cor., secs. 28 and 29, originally established by C. L. Craig, U. S. deputy surveyor in 1856, and reestablished by A. J. Stewart Jr. U. S. deputy surveyor in 1874, which is a concrete block, 18 x 18 x 18 ins. set flush with the ground, with a cobble stone, 6 x 5 x 3 ins. above center, marked 1 on W. face.

From the records of the county surveyor, Utah County, this cor. was remonumented by the county surveyor, the cor. monument being set in the concrete block at the original position cor. was found.

I witness this cor. as follows:-

S. 1° 22' E., 2 lks. distant from center of cobble stone.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground with brass cap marked

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Chains

WC

S29 S28
T6S R2E

MC

C

1931 deposit a sand-
stone, 8 x 6 x 4 ins., marked with a X at base of post.

Reestablishment of surveys executed by G.L.
Craig, U. S. deputy surveyor in 1856, and
subsequently resurveyed by A. J. Stewart Jr.
in 1874.

From the $\frac{1}{4}$ sec. cor. and meander cor., secs. 28 and 29,
N. 0° 44' W., bet. secs. 28 and 29, with continuous
measurement:

- 41.20 Barbed wire fence, brs. E. and W.
- 42.85 Barbed wire fence, brs. NE. and SW.
- 47.80 Barbed wire fence, brs. E. and W.
- 59.50 Barbed wire fence, brs. E. and W.; thence across road.
- 59.75 Barbed wire fence, brs. E. and W.
- 65.00 Cor. of barbed wire fence, brs. N. and W.; leave
cultivated land and enter land used for grazing.
- 68.35 Cor. of barbed wire fence, brs. E. 2 lks. dist.; fence
brs. E. and S.
- 69.25 Edge of swamp, brs. E. and W.; thence across swamp.
- 76.50 Edge of swamp, brs. E. and W.; thence over gently
rolling land.
- 77.35 Barbed wire fence, brs. E. and W.
- 80.04 The cor. of secs. 20, 21, 28 and 29, which is a concrete
block, 18 x 18 x 18 ins., set flush with the ground,
with a cobble stone, 6 x 5 x 5 ins. above center. On
W. side of this monument I found a cobble stone, 12 x 8
x 5 ins., lying loose on the ground marked with 4 notches
on one edge and 2 notches on cornering edge.

From the records of the county surveyor, Utah County,
this cor. was remonumented by the county surveyor at the
original position cor. monument was found.

I witness this cor. as follows:-

S. 0° 44' E., 2 lks. dist. from center of concrete block.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in
the ground with brass cap marked

WC

T6S R2E
S20 S21

S29 S28

1931 alongside of post,
set the cor. monument found lying loose on the ground.

Land, gently rolling; drainage W.

**DEPENDENT RESOURCES OF THE
OFFICE OF SUBDIVISION OF THE U.S. DEPT. OF AGRICULTURE**

Chains

enter

Soil, deep, rich sandy and clay loam; 1st rate.

Most of S. half mile is covered with medium growth of grass and tules, and N. half mile is cultivated.

North, bet. secs. 20 and 21; on blank line.

40.38 Fall 45 lks. E. of $\frac{1}{4}$ sec. cor., restored by county surveyor hereinafter described.

80.76 Fall 90 lks. E. of the cor. of secs. 16, 17, 20 and 21, hereinafter described.

The course of this mile therefore, is N. $0^{\circ} 39' W.$, and the distance of each half mile is 40.38 chs.

From the cor. of secs. 20, 21, 28 and 29; thence

N. $0^{\circ} 39' W.$, bet. secs. 20 and 21.

Over gently rolling land, through medium growth of grass

5.15 Barbed wire fence, brs. E. and W.

13.50 Edge of swamp, 80 lks. wide, brs. NE. and SW.

17.30 Cor. of fence, brs. E. and W., and N.

21.60 Cor. of fence, brs. E. and W., and S.; enter cultivated land.

31.35 Barbed wire fence, brs. E. and W.; thence across road.

31.68 Barbed wire fence, brs. E. and W.

40.38 The $\frac{1}{4}$ sec. cor., restored by the county surveyor, which is a concrete block, 18 x 18 x 18 ins., set flush with the surface of the ground, with a gobbler stone, 5 x 4 x 3 ins. above center marked with a X on top.

From the records of the county surveyor, Utah County, no evidence of the original $\frac{1}{4}$ sec. cor. could be found and this $\frac{1}{4}$ sec. cor. was restored at the proportionate point on line bet. the cor. of secs. 20, 21, 28 and 29, and cor. of secs. 16, 17, 20 and 21.

I witness this $\frac{1}{4}$ sec. cor. as follows:-

S. $0^{\circ} 39' E.$, 2 lks. dist. from center of concrete block

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground with brass cap marked

820 | 821

1931.

From the $\frac{1}{4}$ sec. cor. restored by county surveyor.

NW. cor. of brick house of Lewis Clegg, brs. S. $89^{\circ} 59' E.$ 4.19 chs. dist.

41.80 Barbed wire fence, brs. E. and W.

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Chains

- 49.00 Barbed wire fence, brs. E. and W.
- 71.00 Barbed wire fence, brs. N. 2°W., and S. 2°E.; telephone line along fence; leave cultivated land; enter graveled road, 1 ch. wide.
- 80.76 The cor. of secs. 16, 17, 20 and 21, which is a concrete block, 18 x 18 x 18 ins. set 10 ins. below surface of the ground, with cobble stone, 5 x 5 ins. in center.

From the records of the county surveyor, Utah County, this cor. was remonumented by the county surveyor, the cor. monument being set in the concrete block at true position cor. was found.

The cor. is at center of cross roads, bearing E. and W., and N. and S.

From this cor.

SE. cor. of porch of brick house, owned by Lee R. Walker, brs. N. 53° 40'W., 138 lks. dist.

Telephone pole, brs. N. 54° 10'W., 46 lks. dist.

Telephone pole, brs. S. 51° 50'E., 55 lks. dist.

I witness this cor. as follows:-

N. 45°E., 68 lks. dist. at cor. of barbed wire fence, bearing E. and N.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground with brass cap marked

T6S	R2E
S17	S16
WC S20	S21

1931 deposit a sand-stone, 5 x 3 x 3 ins., marked with a X at base of post.

Land, gently rolling; drainage W.

Soil, deep, rich sandy and clay loam; 1st rate.

Portion of land is under cultivation and portion used for pasture or grazing.

From the cor. of secs. 20, 21, 28 and 29.

West, bet. secs. 20 and 29 on blank line.

30.90 Fall 14½ lks. N. of meander cor. secs. 20 and 29, restored by county surveyor hereinafter described.

31.00 No evidence of original meander cor. found.

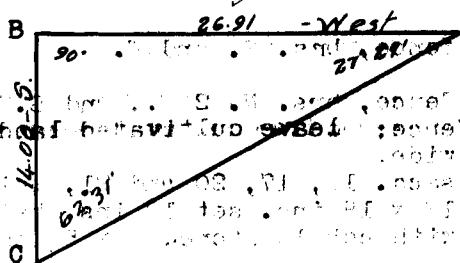
40.00 No evidence of ¼ sec. cor. found.

56.00 Edge of slough over which it is impracticable to chain.

In order to determine distance across slough by triangulation, I set flag A at this point, and flag B on line to the west; from flag B, flag C is set south 14.00 chs. dist.

**DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF TOWNSHIP 3 S., RANGE 2 E.**

Chains



All angles by 3 repetitions, with no closing error, are as follows:-

At flag A, 27° 29'
At flag B, 90° 00'
At flag C, 62° 31'

Distance by triangulation, 26.91 chs.
Distance to flag B, 82.91 chs.
By return measurement, 2.67 chs. to

80.24 Fall 38 lks. N. of the cor. of secs. 19, 20, 29 and 30, hereinafter described.

The course of this mile therefore is S. 89° 44' W., and the distance is 80.24 chs.

From the cor. of secs. 20, 21, 28 and 29; thence S. 89° 44' W., bet. secs. 20 and 29.

Over gently rolling land, through medium growth of grass.

14.50 Edge of small swamp, brs. NE. and SW.; thence across swamp.

18.00 Leave swamp, brs. NE. and SW.

22.60 N. of line, 170 lks. dist. is cor. of barbed wire fence brs. W. and N.

28.90 Barbed wire fence, brs. N. and S.; N. 143 lks. dist. is cor. of fence which bears to the E.; enter cultivated land.

30.90 The meander cor. of secs. 20 and 29, as restored by the county surveyor, which is a concrete block, 18 x 18 x 18 ins., set flush with the ground.

From the records of the county surveyor, this cor. was restored on line and at proportionate point bet. the cor. of secs. 20, 21, 28 and 29, and the cor. of secs. 19, 29 and 30.

I find that this cor. is not set at the proportionate dist.

31.09 Proportionate point for meander cor. of secs. 20 and 29 originally established by G. L. Craig, U. S. deputy surveyor, and reestablished by A. J. Stewart Jr. U. S. deputy surveyor in 1874.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for restored meander cor., with brass cap marked

MC S20
S29
C R2E

DEPENDENT RESURVEY OF PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Chains

Deposit a stone, 4 x 4 x 2 ins., marked with a X at base of post.

Reestablishment of surveys executed by A.J. Stewart Jr., U. S. deputy surveyor in 1874.

From the restored meander cor. of secs. 20 and 29, continue on same line with continuous measurement.

36.75 Barbed wire fence, brs. N. and S.; fence is along clay bank about 5 ft. high; leave cultivated land, enter swamp and medium growth of tules from 3 to 6 ft. high.

40.12 Proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for restored $\frac{1}{4}$ sec. cor., with brass cap marked

	S 20
$\frac{1}{4}$	<u> </u>
	S 29

1931 deposit a sandstone, 10 x 8 x 4 ins., marked with a X at base of post.

56.00 Edge of slough, brs. N. 70° E., and S. 70° W.; thence across slough and swamp land.

80:24 The cor. of secs. 19, 20, 29 and 30, which is a stump of cedar post, with a sandstone, 10 x 10 x 4 ins. marked with a X on top, set alongside; mound of stone around post.

From the records of the county surveyor, this sandstone and mound of stone was placed at cor. by the county surveyor, who describes the cor. as being cedar post as described in the government notes.

This cor. stands 90 lks. E., and 120 lks. S. of dry bed of old slough which agrees closely with the record.

Alongside of S. side of cedar post.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground with brass cap marked

T6S	R2E
S19	S20
S30	S29

1931

Land, gently rolling.

Soil, sandy clay loam; 1st rate.

Land on E. portion under cultivation and used as pasture; land on W. portion swamps and slough.

Dense growth of tules from 3 to 6 ft. high on W. portion.

South, bet. secs. 29 and 30.

Over gently rolling land, through medium growth of grass and tules.

**DEPENDENT RESURVEYING
PORTION OF SUBDIVISION OF T. 36 S., R. 12 E.**

Chains

ended

- 5.00 Leave tules, brs. N. 15 W., and SE corner of section 29 and 30, established by A. J. Stewart Jr., U.S. deputy surveyor in 1874, no evidence of which can be found. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for restored meander cor., with brass cap marked

T6S
S30

R2E
S29

MC

1931

deposit a cobble

stone, 3 x 3 x 3 ins., marked with a X at base of post.

From this meander cor. the mean high water mark of Utah Lake, at edge of vegetation and sandy bank, brs. S. 5.00 chs. dist.; edge of water of Utah Lake which is at extreme low level, brs. S. 26.00 chs. dist.

Land, gently rolling.

Soil, loose sandy and clay loam; 1st rate.

Medium growth of grass, and on portion of line, tules;

From the cor. of secs. 19, 20, 29 and 30.

West bet. secs. 19 and 30.

Over gently rolling land, through medium growth of grass and tules.

- 0.90 Dry bed of slough, 60 lks. wide, brs. NE. and S.; leave tules.

- 4.20 Fall 247 lks. N. of a sandstone, 12 x 10 x 8 ins., lying loose on the ground and marked with a X on one face. The stone answers the description for meander cor., but has evidently been moved from original position.

- 4.50 Sandy bank about 2 ft. high, brs. N. and S.

- 5.17 Barbed wire fence, brs. N. and S.; cor. of fence bearing E. brs. N. 133 lks. dist.

- 5.20 Record dist. for meander cor., secs. 19 and 30, established by A. J. Stewart Jr., U.S. deputy surveyor in 1874.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for restored meander cor., with brass cap marked

T6S

S19

MC

S30

R2E

1931

set the sandstone marked with a X found 247 lks. S. of 4.20 ch. point.

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Chains

From this meander cor. the mean high water mark of Utah Lake, at edge of vegetation and on low sandy bank, brs. W. 6.00 chs.; the edge of water of Utah Lake which is at an extreme low level, brs. W. 19.00 chs.

Land, gently rolling.

Soil, loose sandy loam; 1st rate.

Medium growth of tules and grass.

S.

Reestablishment of surveys executed by C.L. Craig, U. S. deputy surveyor in 1856, and surveys executed by A. J. Stewart Jr., U. S. deputy surveyor in 1874.

Random Lines.

From the cor. of secs. 19, 20, 29 and 30.

North, bet. secs. 19 and 20.

40.71 Fall 63 lks. E. of the $\frac{1}{2}$ sec. cor., hereinafter described.

The course and dist. of this half mile therefore is N. $0^{\circ} 53' 4''$, 40.71 chs.

From the $\frac{1}{2}$ sec. cor., continue

North, with continuous measurement.

42.11 No evidence of meander cor. of secs. 19 and 20, established by C.L. Craig, U.S. deputy surveyor in 1856, found.

80.49 Fall 40 lks. E. of cor. monument set by county surveyor for secs. 17, 18, 19 and 20, hereinafter described.

From the cor. monument set by county surveyor for secs. 17, 18, 19 and 20.

East, bet. secs. 17 and 20.

40.00 Fall 25 lks. S. of $\frac{1}{2}$ sec. cor., hereinafter described.

From $\frac{1}{2}$ sec. cor., continue

East, with continuous measurement.

80.38 Fall 26 lks. S. of cor. of secs. 16, 17, 20 and 21, heretofore described.

Return to cor. monument set by county surveyor for secs. 17, 18, 19 and 20; thence

West, bet. secs. 18 and 19.

25.50 Fall 17 lks. N. of monument set by county surveyor for meander cor. of secs. 18 and 19, hereinafter described.

26.50 No evidence of meander cor. secs. 18 and 19, established by C.L. Craig, U. S. deputy surveyor in 1856, and reestablished by A. J. Stewart Jr. U.S. deputy surveyor in 1874 could be found.

37.15 No evidence of meander cor. of secs. 18 and 19, established by A. J. Stewart Jr. in 1874 could be found.

**DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.**

Chains

united

- Return to the monument set by county surveyor for cor. of secs. 17, 18, 19 and 20; thence
- North, bet. secs. 17 and 18.
- 40.28 Fall 102 lks. E. of $\frac{1}{4}$ sec. cor.; hereinafter described.
- From $\frac{1}{4}$ sec. cor., continue
- North, with continuous measurement.
- 80.23 Fall 116 lks. E. of cor. of secs. 7, 8, 17 and 18, hereinafter described.

From the records of the county surveyor, Utah County, the county surveyor was unable to find the cor. of secs. 17, 18, 19 and 20, and that the county surveyor set a monument for cor. of secs. 17, 18, 19 and 20, at point of intersection of a line extended from $\frac{1}{4}$ sec. cor. bet. secs. 17 and 20, on the course of the line of E. half mile bet. secs. 17 and 20, with the N. and S. line bet. the $\frac{1}{4}$ sec. cor. bet. secs. 19 and 20 and the $\frac{1}{4}$ sec. cor. bet. secs. 17 and 18; that a monument for meander cor. secs. 18 and 19, was set at 25.50 chs. dist. on bearing of course of line of E. half mile bet. secs. 17 and 20, from the monument set for cor. of secs. 17, 18, 19 and 20.

As the county surveyor did not restore the corner monuments of secs. 17, 18, 19 and 20, and the meander cor. of secs. 18 and 19 at points determined by approved methods, I restored the cor. of secs. 17, 18, 19 and 20 at the proportionate point bet. $\frac{1}{4}$ sec. cor. bet. secs. 19 and 20 and $\frac{1}{4}$ sec. cor. bet. secs. 17 and 18, and at record dist. from the $\frac{1}{4}$ sec. cor. bet. secs. 17 and 20, and I restore the meander cor. of secs. 18 and 19, at record course and dist. from the restored cor. of secs. 17, 18, 19 and 20.

The course and dist. of the N. half mile bet. secs. 19 and 20 therefore is N. $0^{\circ} 34' W.$, 40.03 chs.; the course and dist. of W. half mile bet. secs. 17 and 20 is west, 40.00 chs.; the course and dist. of the E. half mile bet. secs. 17 and 20 is S. $89^{\circ} 38' W.$, 40.38 chs.; the course and dist. of the S. half mile bet. secs. 17 and 18 is N. $1^{\circ} 28' W.$, 40.04 chs. and the course and dist. of the N. half mile bet. secs. 17 and 18 is N. $19^{\circ} 40' W.$, 40.02 chs.

Reestablishment of surveys executed by A. J. Stewart Jr. U. S. deputy surveyor in 1874.

True Lines.

- From the cor. of secs. 19, 20, 29 and 30.
- N. $0^{\circ} 53' W.$, bet. secs. 19 and 20.
- Over gently rolling land, through tules and medium growth of grass.
- 1.20 Edge of slough, 80 lks. wide, brs. NE. and SW.
- 1.86 Barbed wire fence, brs. E. and W.
- 2.00 Stream of clear water, 80 lks. wide, drains SE.; leave tules, brs. E. and SW.; thence over swampy land, medium growth of grass.
- 8.40 Recross stream of water, drains S. $15^{\circ} W.$

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Chainage

19.93 Barbed wire fence, brs. E. and W.
23.00 Edge of slough, brs. N. 60°W., and S. 60°E.; thence
across slough through dense growth of tules 6 ft. high.

29.00 Leave slough and tules, brs. N. 60°W., and S. 60°E.;
thence over nearly level swamp land through dense growth
of grass.

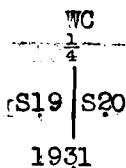
40.71 The $\frac{1}{4}$ sec. cor., which is a concrete block, 18 x 18 x
18 ins., set flush with the ground, with cobble stone,
10 x 4 ins. marked with a X in center.

The records of the county surveyor, Utah County show
that this $\frac{1}{4}$ sec. cor. was remonumented by the county
surveyor, the monument of the $\frac{1}{4}$ cor. being set in
concrete block which was set at original position cor.
monument was found.

I witness this cor. as follows:-

S. 0° 53'E.; 2 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in
the ground with brass cap marked



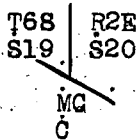
From $\frac{1}{4}$ sec. cor.; thence

N. 0° 34'W., with continuous measurement.

41.75 Barbed wire fence, brs. NW. and SE.; leave swamp land,
enter cultivated land.

42.11 Record dist. point for meander cor. of secs. 19 and 20,
established by C. L. Craig, U. S. deputy surveyor in
1856, and reestablished by A. J. Stewart Jr., U. S.
deputy surveyor in 1874.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in
the ground for restored meander cor., with brass cap
marked



1931 deposit a sand-
stone, 6 x 6 x 3 ins., marked with a X at base of post.

Reestablishment of surveys executed by C. L.
Craig, U. S. deputy surveyor in 1856, and
subsequently resurveyed by A. J. Stewart Jr.
U. S. deputy surveyor in 1874.

From the restored meander cor., secs. 19 and 20, continue
on same line with continuous measurement.

46.90 Barbed wire fence, brs. E. and W.

54.70 Barbed wire fence, brs. E. and W.

80.42 Cor. monument set by county surveyor for cor. of secs.
17, 18, 19 and 20, which is a concrete block, 18 x 18 x

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 3 S., R. 12 E.

Chains

antard

18 ins. set 6 ins. below surface of ground, with a
cobble stone, 4 x 4 x 3 ins. in center.

80.52 Barbed wire fence, brs. E. and W. of divide road

80.74 Proportionate point. point the divide road

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in
the ground for restored cor. of secs. 17, 18, 19 and 20,
with brass cap marked

T6S	R2E
S18	S17
S19	S20

1931 deposit a sandstone

6 x 5 x 5 ins., marked with a X at base of post.

Land, nearly level.

Soil, deep, rich sandy and clay loam; 1st rate.

Medium growth of grass and tules on S. portion of mile;
N. portion of mile under cultivation.

From the cor. of secs. 16, 17, 20 and 21.

S. 89° 38' W., bet. secs. 17 and 20.

Along road, over nearly level land. The land to N. and
S. of line is under cultivation.

40.38 The $\frac{1}{4}$ sec. cor., which is a concrete block, 18 x 18 x
18 ins., set 20 ins. below surface of ground, with a
cobble stone, 5 x 4 x 3 ins. in center. No marks visible
on stone.

From the records of the county surveyor, Utah County,
this cor. was remonumented by the county surveyor, the
cor. monument being set in the concrete block which was
set at position cor. monument was found.

This cor. stands near center of road bearing E., and on
line with old fences bearing N. and S. from road.

From this $\frac{1}{4}$ sec. cor., SE. cor. of porch of W. R.
Holdaway's brick house, brs. N. 26° 15' W., 308 lks. dist.;
telephone pole, brs. N. 58° 15' E., 41 lks. dist.; pole
in electric power line, brs. S. 16° 40' W., 26 lks. dist.

From $\frac{1}{4}$ sec. cor., thence

West, with continuous measurement.

40.87 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in
the ground for witness cor. to $\frac{1}{4}$ sec. cor., with brass
cap marked

S 17
1/4
S 20

1931 deposit a sandstone

5 x 4 x 3 ins., marked with a X at base of post.

40.90 Barbed wire fence, brs. N. and S.; leave road and enter
cultivated land.

**DEPARTMENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.**

Chain

- 45.35 Barbed wire fence, hrs. N. and S.
- 61.71 Barbed wire fence, hrs. N. and S.
- 72.82 Barbed wire fence, hrs. N. and S.
- 80.38 The restored cor. of secs. 17, 18, 19 and 20.
Land, nearly level; drainage E.
Soil, deep, rich clay and sandy loam; 1st rate.
Land, on entire mile is under cultivation.

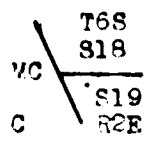
West, bet. secs. 18 and 19.

Over nearly level land, through cultivated field.

- 25.50 Fall 42 lbs. N. of monument set by county surveyor for meander cor. of secs. 18 and 19, which is a concrete block, 18 x 18 x 18 ins., set flush with the ground, with cobble stone, 4 x 3 x 3 ins. in center. No marks visible on stone.

- 26.50 Record dist. for meander cor. of secs. 18 and 19, established by C. L. Craig, U. S. deputy surveyor in 1856, and reestablished by A. J. Stewart, Jr., U. S. deputy surveyor in 1874.

Set on iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for restored meander cor. of secs. 18 and 19, with brass cap marked



1931 deposit a sandstone, 8 x 6 x 5 ins., marked with a X at base of post.

Reestablishment of surveys executed by A. J. Stewart, Jr., U. S. deputy surveyor in 1874.

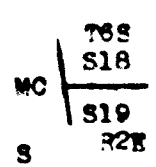
From the restored meander cor. of secs. 18 and 19, West, with continuous measurement.

- 26.96 Barbed wire fence, hrs. N. 30° E., and S. 30° E.; fence is along bank about 4 ft. high; leave cultivated land, enter swamp and dense growth of tules 6 ft. high.

- 35.80 Barbed wire fence, hrs. N. and S.

- 37.15 Record dist. for meander cor. of secs. 18 and 19, established by A. J. Stewart, Jr., U. S. deputy surveyor in 1874; no evidence of which could be found.

Set on iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for restored meander cor. of secs. 18 and 19, with brass cap marked



1931

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 36 S., R. 12 E.

Chains

enlarged

Deposit a sandstone, 6 x 6 x 4 ins., marked with a X at base of post.

From this cor., the mean high water mark of Utah Lake at edge of vegetation and on sandy bank, bds. W., 4.60 chs., and the edge of the water of Utah Lake which is at an extreme low level, bds. W., 19.60 chs.

Land, nearly level.

Soil, deep, rich sandy and clay loam; 1st rate

Medium growth of tules about 6 ft. high on W. portion and E. portion is under cultivation.

From the restored cor. of secs. 17, 18, 19 and 20.

N. 1° 28' W., bet. secs. 17 and 18.

Over nearly level land, through cultivated field.

7.25 Barbed wire fence, bds. E. and W.

11.35 Barbed wire fence, bds. E. and W.

15.25 Barbed wire fence, bds. E. and W.

19.25 Barbed wire fence, bds. E. and W.

23.70 Barbed wire fence, bds. E. and W.

39.85 Cor. of barbed wire fence, bds. N. and E.

40.04 The $\frac{1}{4}$ sec. cor., which is a concrete block, 18 x 18 x 18 ins., set 6 ins. below surface of ground, with stump of cedar post in center.

This $\frac{1}{4}$ sec. cor. stands in old fence line bearing to the N., and at end of road from the E.

From the records of county surveyor, Utah County, this $\frac{1}{4}$ sec. cor. was remonumented by the county surveyor by placing a concrete block around cedar post, identified to him by settlers as being set to mark the original position of $\frac{1}{4}$ sec. cor., which was in fence line running N. and S.; and in line with trees to the west and in a ditch bearing E.

The concrete block was identified as being at the original position for $\frac{1}{4}$ sec. cor. by John L. Larsen, claimant of the land to the NW. of cor.

I witness this $\frac{1}{4}$ sec. cor. as follows:-

S. 1° 28' E., 2 lks. dist. from center of concrete block

Set an iron post; 3 ft. long; 1 in. diam., 27 ins. in the ground with brass cap marked

S18 | S17

1931

deposit a sandstone

6 x 5 x 4 ins., marked with a X at base of post.

From $\frac{1}{4}$ sec. cor.

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Chains

N. 1° 40' W., with continuous measurement.

Along old fence.

40.55 Barbed wire fence, brs. E. and W.

52.20 Barbed wire fence, brs. E. and W.; leave cultivated land entering swamp and dense tules 5 ft. high.

63.50 Leave swamp, enter medium growth of grass, brs. E. and NW.

71.00 Enter swamp land and medium growth of tules, brs. NW. and SE.

74.00 Barbed wire fence, brs. E. and W.

79.50 Barbed wire fence, brs. E. and W.; leave swamp and tules; thence across road.

80.06 The cor. of secs. 7, 8, 17 and 18, which is a concrete block, 18 x 18 x 18 ins., set flush with the ground, with stump of cedar post in center.

From the records of the county surveyor, Utah County, this sec. cor. was remonumented by the county surveyor, by placing concrete around a cedar post identified to him by settlers as being set to mark original position of sec. cor. and that cedar post was originally set by cor. monument.

This sec. cor. stands on N. side of road, bearing E. and W., and in line with old fence bearing N. and S.

I witness this cor. as follows:-

S. 1° 40' E., .2 lks. dist. from center of concrete block.

Set an iron post, 3 ft. long, .2 ins. diam., .27 ins. in the ground with brass cap marked

WC	
T6S.	R2E
S 7	S 8
S18	S17

1931 deposit a sandstone, 8 x 6 x 4 ins., marked with a X, at base of post.

Land, gently rolling.

Soil, deep, rich sandy and clay loam, 1st rate.

Portion of mile fs. under cultivation and portion is swamp covered with dense growth of tules about 5 ft. high.

West, bet. secs. 7 and 18.

Over nearly level land, along road.

0.80 Barbed wire fence, brs. NE. and SW.; leave road, enter swamp and dense growth of tules about 5 ft. high.

1.40 Barbed wire fence, brs. N. and S. 20 lks. to fence bearing NE. and SW.

DEPENDENT RESURVEY OF
PORTION OF SUBDIVISION OF T. 6 S., R. 2 E.

Chains

19.90 Stream of clear water, 30 lks. wide, drains NE.

21.00 Barbed wire fence, brs. N. and S.; leave swamp land enter cultivated land.

27.60 Net wire fence, brs. N. and S.

37.10 Barbed wire fence, brs. N. and S.; leave cultivated land.

37.30 Road, brs. N. and S.

37.70 Record dist. for meander cor. of secs. 7 and 18, established by C. L. Craig, U. S. deputy surveyor in 1856 and reestablished by A. J. Stewart Jr., U. S. deputy surveyor in 1874, no evidence of which could be found.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for restored meander cor. of secs. 7 and 18, with brass cap marked

MC	T6S
	S 7
C	S 18
	R2E

1931 deposit a sandstone, 8 x 6 x 6 ins., marked with a X, at base of post.

This cor. stands on clay bank about 12 ft. high, brs. N. and S.

From this cor. the mean high water mark of Utah Lake, at edge of vegetation and on low sandy bank, brs. W., 6.00 chs., and the edge of water of Utah Lake, which is at an extreme low level, brs. W. 19.40 chs.

Land, nearly level.

Soil, deep, rich sandy and clay loam; 1st rate.

Portion of land is under cultivation and portion is swamp, covered with dense growth of tules.

DEPENDENT RESURVEY OF
PORTION OF MEANDERS OF T. 6 S., R. 2 E.

Reestablishment of surveys executed by C. L. Craig, U. S. deputy surveyor in 1856.

From the meander cor. of secs. 28 and 29, which is identical with 1 sec. cor., bet. secs. 28 and 29; thence with meanders through sec. 29, on record courses and distances.

N. 38° 15' W., 36.20 chs.; set temp. angle point No. 1.

N. 40° W., 7.30 chs.; set temp. angle point No. 2.

N. 32° 30' W., 7.40 chs., to point from which restored meander cor. of secs. 20 and 29, bears S. 55° 15' W., 63.4 lks. dist.

Return to meander cor. of secs. 28 and 29.

Thence with meanders in sec. 29.

N. 38° 58' W., over nearly level land which is under cultivation.

DEPENDENT RESURVEY OF
PORTION OF MEANDERS IN T. 6 S., R. 2 E.

Chains

- 1.55. Barbed wire fence, brs. E. and W.
2.60 Barbed wire fence, brs. E. and W.
88
10.20 Barbed wire fence, brs. E. and W.
19.40 Barbed wire fence, brs. E. and W.; leave cultivated land, enter medium growth of grass.
25.00 Slough, 40 lks. wide, drains SW.
25.30 Barbed wire fence, brs. E. and W.
36.23 Proportionate point,
Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for angle point No. 1, with brass cap marked

T6S.
AP R2E
1 S29

1931 deposit a cobble stone, 4 x 3 x 3 ins., marked with a X at base of post.

Thence

N. 40° 43' W.

- 7.31 Proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for angle point No. 2, with brass cap marked

T6S.
AP R2E
2 S29

1931 deposit a cobble stone, 6 x 5 x 3 ins., marked with a X at base of post.

Cor. stands at edge of swamp, brs. E. and W.

Thence

N. 33° 13' W., across swamp land.

- 2.00 Leave swamp, brs. E. and W.

- 4.10 Barbed wire fence, brs. E. and W.

- 4.25 Barbed wire fence, brs. E. and W.; enter cultivated land.

- 7.40 The restored meander cor. of secs. 20 and 29, set at 31.09 chs. from cor. of secs. 20, 21, 28 and 29. S. 89° 44' W.

Land, gently rolling.

Soil, deep, rich clay loam; 1st rate.

Portion of land under cultivation and medium growth of grass on portion.

Thence in sec. 20, on record courses and distances.

N. 32° 30' W., 10.50 chs.; set temp. angle point No. 1.

N. 69° 30' W., 13.80 chs.; set temp. angle point No. 2.

**DEPARTMENT OF AGRICULTURE
BUREAU OF LAND MANAGEMENT
POSITIONS OF MEASUREMENTS IN SEC. 19 AND 20, T. 28 N., R. 28 E.**

Chains

N. 49° 45' W., 26.80 chs.; set temp. angle point No. 1.

N. 43° 15' W., 14.80 chs. to point from which the corner of sec. 19 and 20, brs. N. 67° 30' W., 88 lks. dist.

Return to restored meander cor. of secs. 19 and 20.

Thence with meanders in sec. 20.

N. 32° 56' W., over cultivated land.

6.15 Barbed wire fence, brs. E. and W.

10.62 Proportionate point, in cultivated field used for raising sugar beets.

Set a sandstone, 12 x 8 x 6 ins., 24 ins. in the ground for angle cor. No. 1, marked AP 1 on SW., S 20 on NE. face, and X on top.

I witness this cor. as follows:-

N. 69° 28' W., 2.89 chs. dist. on line with angle point No. 2.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground with brass cap marked

AP
1
WC
T6S
R2E
S20

1931 deposit a sandstone, 8 x 6 x 6 ins., marked with a X, at base of post. From angle point No. 1, thence

N. 69° 28' W.

2.89 Witness cor. to angle point No. 1, at edge of field.

2.95 Barbed wire fence, brs. E. and W.

3.60 Barbed wire fence, brs. E. and W.

6.00 Slough, brs. NE. and SW.; thence across slough leaving cultivated land.

9.00 Edge of slough, brs. NE. and SW.; thence over nearly level land, through medium growth of grass.

13.45 Barbed wire fence, brs. N. 50° W., and S. 50° E.

13.99 Proportionate point; on bank bearing NW. and SE.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for angle point No. 2, with brass cap marked

AP
2
T6S
R2E
S20

1931 deposit a sandstone, 6 x 5 x 2 ins., marked with a X, at base of post.

Thence

N. 49° 50' W.

DEPENDENT RESURVEY OF
PORTION OF MEANDERS IN T. 6 S., R. 2 E.

Chains

- 9.50 Barbed wire fence, brs. NW and SE.; enter cultivated land.
- 14.00 Barbed wire fence, brs. E. and W.
- 27.23 Proportionate point.
Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for angle point No. 3, with brass cap marked
- AP 3 T6S
 R2E
 S20

1931
- stone, 4 x 3 x 2 ins., marked with a X, at base of post.
- Thence
- N. 43° 34' W., over cultivated land.
- 3.40 Barbed wire fence, brs. E. and W.
- 4.15 Barbed wire fence, brs. E. and W.
- 14.58 The restored meander cor. of secs. 19 and 20.
Land, nearly level.
Soil, deep, rich clay loam; 1st rate.
Most of land to E. under cultivation; land to W. has medium growth of grass.
-
- Thence in sec. 19, on record courses and distances.
N. 43° 15' W., 16.00 chs.; set temp. angle point No. 1
N. 30° W., 31.10 chs. to point from which restored meander cor. of secs. 18 and 19, brs. N. 85° W., 38½ lvs. dist.
Return to restored meander cor. of secs. 19 and 20.
Thence with meanders in sec. 19.
N. 43° 34' W., over nearly level land, through cultivated fields.
- 5.05 Barbed wire fence, brs. E. and W.
- 16.09 Proportionate point.
Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for angle point No. 1, with brass cap marked
- AP 1 T6S
 R2E
 S19

1931
- stone, 10 x 8 x 3 ins., marked with a X at base of post.
- Thence
- N. 30° 23' W., through cultivated field.
- 9.30 Barbed wire fence, brs. E. and W.

PORTION OF MEANDERS IN T. 3 S., R. 3 E.

Chains		united
31.25	The restored meander cor. of secs. 18 and 19, brs. S. 85° 12' W., 2.02 chs. dist. Land, nearly level. Soil, deep, rich clay loam; 1st rate. Most of land is under cultivation.	03:0
	Thence in sec. 18, on record courses and distances: N. 30° W., 18.30 chs.; set temp. angle point No. 1. N. 16° 15' W., 8.10 chs.; set temp. angle point No. 2. N. 0° 45' W., 22.60 chs.; set temp. angle point No. 3. N. 14° E., 10.40 chs.; set temp. angle point No. 4. N. 5° W., 24.00 chs., to point from which restored meander cor. of secs. 7 and 18, brs. S. 85° 12' W., 2.02 chs. dist.	
	Return to restored meander cor. of secs. 18 and 19, brs. S. 85° 12' W., 2.02 chs. dist.	
	Thence with meanders in sec. 18: N. 31° 15' W., over nearly level land, through cultivated fields.	
8.30	Barbed wire fence, brs. E. and W.	
18.49	Proportionate point. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for angle point No. 1, with brass cap marked AP 1 T6S R2E S18 1931 deposit a sand-stone, 6 x 5 x 3 ins., marked with a X, at base of post. Thence N. 17° 36' W.	
8.00	Barbed wire fence, brs. E. and W.; leave cultivated land, enter dense growth of grass.	
8.14	Proportionate point. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for angle point No. 2, with brass cap marked AP 2 T6S R2E S18 1931 deposit a sand-stone, 6 x 4 x 4 ins., marked with a X, at base of post. Thence N. 2° 06' W.; dense growth of tules to west of line.	
16.35	Barbed wire fence, brs. E. and W.; enter swamp land.	

DEPENDENT RESURVEY OF
PORTION OF MEANDERS IN T. 6 S., R. 2 E.

Chains

22.57 Proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for angle point No. 3, with brass cap marked

AP / T6S
4 / R2E
3 / S18

1931 deposit a sandstone, 8 x 6 x 6 ins., marked with a X, at base of post.

Cor. stands in swamp 65 lks. W. of foot of clay bank about 15 ft. high.

Thence

N. 12° 40'E.

7.75 Barbed wire fence, brs. E. and W.

10.33 Proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for angle point No. 4, with brass cap marked

AP / T6S
4 / R2E
4 / S18

1931 deposit a sandstone, 10 x 8 x 6 ins., marked with a X, at base of post.

Cor. stands on top of clay bank about 15 ft. high.

Thence

N. 6° 23'W., along clay bank.

24.01 The restored meander cor. of secs. 7 and 18.

Land, nearly level.

Soil, deep, rich clay loam; 1st rate.

Most of land to the E. is cultivated and land to W. has dense growth of grass and tules.

GENERAL DESCRIPTION

The land of the portion of T. 6 S., R. 2 E., resurveyed is nearly level and drains to the west. The elevation above sea level is approximately 4600 ft. Most of the land east of the meander line established in 1856 is under cultivation and irrigated. The soil is a deep rich clay loam and excellent crops of sugar beets, tomatoes, alfalfa, onions, beans and potatoes are raised. The land to the west, between the meander line established in 1856 and Utah Lake is mostly swamps and sloughs, portion of which is covered with a dense growth of tules about 6 ft. high, and portion with heavy growth of grass affording good grazing. The elevation of this swamp land is very little above Utah Lake, and the soil is a rich clay and sandy loam saturated with water.

The water of the sloughs is fresh and drains into Utah Lake. There are numerous wild ducks found on the

2510

492.

...and the other side of the road...

• 3 1 1 •

66 2000

• **What is the purpose of the study?** The purpose of the study is to determine the effect of a 12-week resistance training program on the strength and endurance of the lower extremities in healthy young adults.

...and the other is the fact that the ...

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

• *Journal of the American Medical Association*, 1977; 237: 1001-1002.

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...and ...

4-680
(August, 1928)

[illegible]

CERTIFICATE OF UNITED STATES SURVEYOR

I, Ralph Gentry, U.S. Cadastral Engineer

~~of special instructions received from the District Cadastral Engineer for Utah~~
bearing date of the 10th day of July, 1931, I have well, faithfully, and true
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instru-
tions, and the laws of the United States, surveyed all those parts or portions of dependent resurvey
of portion of south boundary, portion of subdivision and portion of
meander lines of T. 6 S., R. 2 E.,

of the Salt Lake
Base and Meridian, in the State of Utah, which are represented
the foregoing field notes as having been executed by me, and under my direction; and that all the corners
and survey have been established and perpetuated in strict accordance with the Manual of Surveying Instru-
tions, and the special written instructions of the District Cadastral Engineer for Utah
and in the specific manner described in the field notes, and that the foregoing are the original field notes
such survey Salt Lake City, Utah,
March 15, 1931

Ralph Gentry
U.S. Cadastral Engineer. ~~XXXXXX~~

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

DENVER, COLO., AUG 28 1933, 1933

The foregoing field notes of the survey of the dependent resurvey of portion of
south boundary, portion of subdivision and portion of meander lines
of T. 6 S., R. 2 E.,

executed by Ralph Gentry, U. S. Cadastral Engineer

under his special instructions dated July 10, 1931, having been
carefully examined, and the necessary corrections and explanations made, the said field notes, and the survey
and drawings are hereby approved

Walter D. Dwyer
U. S. Supervisor of Surveys

~~I certify that the foregoing transcript of the field notes of the above described surveys in~~

~~has been correctly copied from the original notes on file in this office.~~

~~U. S. Supervisor of Surveys~~